Biology 350, Fall 2014

Comprehensive Human Anatomy

Blackboard: Most course information for this class is on blackboard. At the course homepage you will be able to view the syllabus and lecture power points handouts, case studies, visible body practices, quizzes, exams and your grades.

Course goals: This course is designed to study human anatomical structures and functions by attention into specific regions. Focusing on the arrangement and relation of various systems in certain compartments; emphasis on clinical correlations as it relates to health professionals.

Approaches:
Lectures
In class pop up questions
Visible Body 3D practices
Blackboard Quizzes
Case studies
Students' projects

Textbook: Required; Clinically Oriented Anatomy, 7th edition, by Keith L. Moore"; it enhances your reading, looking at anatomical figures and expanding your knowledge.

Visible Body 3D Human Atlas software: Required; enhance anatomical study views. *Students could use this website: http://www.visiblebody.com/download_overview/ Select which version (PC or Mac) you will use. Fill the online form, enter the promo code:* ***RSALE*** *(all in CAPS), you will receive a* ***10%*** *discount*

Lectures: Lectures' power points and handouts will be available on blackboard the night before each lecture. Pre-lectures Textbook reading assignment will be posted in the first slide of each lecture power-point. Read the textbook, Print the lecture handouts, and Bring them at lecture time. You could take notes and add information as illustrated and discussed during the lectures. Notes will remind you with the key ideas. In the exams you are responsible for information discussed during the lectures; therefore attendance is considered mandatory.

Pop-up Questions: Interspersed in the lectures are multiple-choice questions that will allow you to review the covered material. Each question is equivalent 1 point and will be added toward the total earned points. The maximum earning points out of these questions is 70. You may see more questions and points during the semester; extra points will be dropped at the end of the semester. These extra questions and points are aimed to compensate for any missed lecture due to unexpected or extra-ordinary situations. There is no make up for any missed questions. Questions are part of the questions bank used for your exams, and might be seen again in the exams. Therefore it would be prudent to participate in lectures' activities.

Clickers: Clickers (Turning Point Student Response System) will be used for grading pop up questions. Starting the second day of class, they will be used in lectures. Follow the instructions and link for Turning points registration on Bb homepage so you are ready to go on the second day of class. When you arrive, click GO -> 41 -> GO. The green light means you are ready to answer questions. If the green light doesn't appear, repeat the GO -> 41 -> GO. It is your responsibility to learn to operate the simple clicker system and to bring it into classroom at every scheduled day.

Cases' studies: Several case histories and questions will be posted on Bb. Cases are outside class assignments and worth 100 points toward the final. The deadline to submit case studies' responses will be announced with each posted case on Bb as well as in the classroom. Keep track of the announced deadlines; exceptions or extension of the deadlines will Not be allowed.

Visible Body Practices: Several practices will be posted on Bb. These practices will ask you to locate specific structures using 3D images of the visible body atlas. You should be able to identify the assigned structures and read its definition.

Quizzes: Several assigned quizzes with each anatomical region will be posted during the semester. Quizzes deadlines will be announced and posted on the Bb. You have to review the specific anatomical region via visible body 3D software before answering these quizzes. The maximum quizzes earning points is 100; which is equivalent to one exam. Therefore missing those quizzes will reflect on in your final grade.

Students' projects: Radiologic Anatomical Compartment projects; By the end of the semester, all students must be involved in a class project. This project includes 40-45 minutes in-class presentation and white paper submission. You could choose a disease/topic that could be detected by imaging techniques through one of the 4 compartmental radiological regions listed below. You should be able to explain the type of the image and the best technique used to have good anatomical view. You should be able to illustrate how this technique was done; what is the best postural position to view the chosen organ or compartment; explain the normal regional anatomical structure apparent in normal images. Compare the normal images of that region with abnormalities associated with a chosen topic/disease.

The white paper should be no more than three pages length; double spaced, not include references or figures. Reference and figures should be listed in additional pages. Total points for presentation and paper will be equal to one exam (100 points). All students in the class are required to attend the students' presentations, as you may encounter question/s of the presented topics in the final exam. You will be involved in this project in a team of students depending on the class size. The total earned points for a submitted project will be given to all students participating in this project. You have to get your instructor approval of the chosen image/topic/disease; all students must be aware of their topics before Thanksgiving break. Presented topics and dates will be posted on Bb and is based on first come first serve. You should post an electronic copy of your power point presentation via Bb Group Blog and your instructor should receive a hard copy of the white paper; both requirements should be submitted two working days before the expected date of presentation. Five points will be deducted for late submission of the project's requirements. Radiological compartments are;

"Chest radiography"
"Abdominal radiography"
"Pelvic radiography"
"Limbs radiography"

Exams: There will be four lecture exams and final exam. Each lecture exam is worth 100 points. The final exam is comprehensive; it covers all the materials that had been studies during the semester and is worth 130 points. Final exam is mandatory to all students. Exams are multiple-choice or true or false questions. You are responsible for all information discussed in the lectures. It is assumed that you know and studied the topics discussed and illustrated during the lectures carefully before each exam. Estimated exams deadlines are listed below. Dates may subject to changes based on the discussed topics; any changes will be announced in classroom as well as on Blackboard.

Exams	Deadline
Exam 1	Oct 8
Exam 2	Nov 5
Exam 3	Nov 21
Exam 4	Dec 10
Final Exam	Dec 16

Course Grading: Grades are based upon the percentage of total possible points earned. Percentages will be rounded to whole numbers for grade assignment using the following grading scale:

A 93-100%	A- 90-92%	
B+ 87-89%	B 83-86%	B- 80-82%
C+ 77-79%	C 73-76%	C- 70-72%

D+ 67-69% D 63-66% D- 60-62%
F 0-59%

Keep a record of your points earned to compare with my records you can view in the "My Grades" section on blackboard. If there is an error or your points have not been recorded, notify me within one week so the error can be corrected. After one week, all scores posted are final.

Source of Points	**Possible Points**
Clicker Quizzes	70
Quizzes	100
Case studies	100
Exam I	100
Exam II	100
Exam III	100
Exam IV	100
Students' projects	100
Final Exam	130
Total earned points	900

Schedule of Topics:

1- Introduction
2. Thoracic region
Exam I
3. Abdominal region
Exam II
4. Pelvis, pelvic viscera and perineum
5. Lower limbs; bones, vessels and nerves
Exam III
6. Back
7. Upper limbs; bones, vessels and nerves
Exam IV
8. Head, neck and cranial nerves
9. Students' presentation

Final Comprehensive Exam Dec 16

Iowa State University complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Any student who may require an accommodation under such provisions should contact the Disability Resources (DR) office for information on appropriate policies and procedures. DR is located on the main floor of the Dean of Students Building, Room 1076; their phone is 515-294-6624. No retroactive accommodations will be provided in this class.