ZOOL 2260 ANATOMY SPRING 2012

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COURSE DESCRIPTION

This course is an introduction to gross and functional morphology of the human body. You must be concurrently enrolled in ZOOL 2260 lecture and lab. While lecture and lab are related, the material covered in each may differ in content and/or focus.

ZOOL 2260 is a course intended primarily for Kinesiology students and students from other disciplines desiring a course in human anatomy; it is generally not recommended for biology majors. There are other courses that may be more appropriate for biology and/or pre-professional students (*e.g.*, ZOOL 3130, ZOOL 3150, or ZOOL 4151).
BIOL 1010/1020 or BIOL 1050 are prerequisites for this course; if you have not taken these or their equivalent at another institution, you will be dropped from the course.

There is a substantial amount of information to be mastered in this course. To do well, one must devote the necessary time and effort. Experience indicates that to be successful, a minimum of 15 hours of preparation and/or review are needed outside of class. **If you are not prepared to dedicate the time and effort needed for this course, you should reconsider your enrollment.**

REQUIRED TEXTS/MATERIALS

- *Fundamentals of Anatomy & Physiology* by Martini, et al.9TH edition. Pearson, ISBN: 9780321719799
- *Lab Manual for Human Anatomy and Morphology* by Jones, T. D. 2008. XanEdu.
- *Pictorial Anatomy of the Cat* by Gilbert, S. G. 1968. Revised edition. University of Washington Press
- Dissection kit (blunt/sharp surgical scissors, iris scissors, scalpel handle and #10 blades, medium forceps, blunt probe, dissecting needles)
- Several pairs of disposable gloves (nitrile gloves, rather than latex, are recommended)
- **Iclicker2** remote to be shared among the 6 students in your assigned study group

CENSUS DATE

This course cannot be taken for credit. It can only be taken for a letter grade. Students can only drop this course prior to the census date of February 22.

GRADING

Grades are determined by the points you earn during the course. Your grade will be determined by your combined performance in lecture and lab. I do not use +/- grades, only whole letter grades. A total of 1000 points are available. It is expected that students will keep track of their scores (including copies of all graded materials) for the duration of the term. Because of potential privacy issues, scores and/or grades will not be given out *via* e-mail, phone or on the course website.

Lecture exam 1	100 points
Lecture exam 2 (cumulative)	100 points
Lecture final exam (cumulative)	100 points
Lab practical exam 1	100 points
Lab practical exam 2 (cumulative)	100 points
Mastering A&P online homework	200 points
Study group activities:	
Iclicker participation in lecture (all questions and quizzes)	150 points
Bi-weekly online chat study sessions, 15 points each **graded** session	150 points

LECTURE EXAMS

The lecture exams will be given in a multiple choice format. Although they will focus on material covered in lecture and will not include specific questions from dissection, material presented in the lab manual is a source for exam questions. Lecture exam 2 and the final exam are both cumulative; that means that they will include material covered in the previous exam(s). I do not recycle exam questions. Lecture exam 1 is scheduled before the census date so that a student will get an idea of the grade they can expect to earn on subsequent exams. **A student who fails the first lecture exam should seriously consider dropping the course. Do not make the mistake of underestimating the difficulty of exams.**

Students who arrive after the first exam of the day has been turned in will not be allowed to take the exam. If you must leave the room for personal reasons, you will not be allowed to finish the in-class exam. Your partially finished exam will be graded as it stands. If you miss an exam for any reason, you must take an alternate exam before the in-class exam is scheduled to take place. If you miss an exam unexpectedly, and do not have documentation of a legitimate reason for doing so, you will not be allowed to take the alternate exam, and your total exam points will be based on the average of your other in-class exams.

When you turn in your exam, you will be required to show photo identification.

LAB PRACTICAL EXAMS

There will be two lab practicals worth 100 points each. Lab exams will be in a timed format and will focus on identification and understanding of relationships and function. Anything included in the lab manual may be included on these exams. Lab practical exam 2 will be cumulative.

Lab practical exams are very time-consuming to set up, thus make-up lab practical exams will not be given. Spelling errors will result in loss of points on lab exams; illegible and/or unintelligible answers will receive no credit.

MASTERING A&P

Weekly online homework assignments are due every Tuesday at 7am (1 hour before class). Assignments are usually posted 2 weeks in advance, and can take 1-3 hours to finish. I recommend that you start the weekly homework assignment as early as possible, because a computer or website malfunction that prevents you from finishing an assignment by the deadline will result in a zero grade. You may start an assignment and return to it later, as long as you finish the assignment before the due date. Students who register after the first homework assignments are due may **not** make up those missed assignments.

To register for the Mastering A&P visit the website http://www.masteringaandp.com/

Click the "STUDENTS" button under the register option. You will be asked for a student access code. This is a printed code supplied inside the Mastering A&P Student Access Kit, which was included with the purchase of your new textbook. If you bought your textbook used, then there is an option for you to purchase an access code online during the registration process at a cost of ~ $50, cheaper than the campus bookstore (note: you do NOT need to buy access to Virtual Labs). If you prefer to purchase an electronic textbook, this option is also made available to you during the registration process.

In Mastering A&P, the name of this course is CSUSTAN ZOOL 2260 SPRING Cooper. To register for this course, enter the code MAPCOOPER52997

STUDY GROUPS

You will be randomly assigned to a study group at the beginning of the semester (once lab period assignments have been finalized). Study groups will consist of 6 students, made up of 3 pairs of lab partners. You will work very closely with your study group members throughout the semester… you will sit as a group in lecture, you work together as a team to answer iclicker2 questions or play games, you will have the same lab period, and you will participate in online chat study sessions twice a week. Part of your grade is dependent on your teamwork, **thus every group member must do their share of the work!**

ONLINE CHAT STUDY SESSIONS

Study groups will use the online tool ***COLLABORATE*** to meet twice weekly for study sessions. These study sessions will last 2 hours each, and each group member must actively participate for the full 2 hours in order to receive points. It is up to each study group to organize their schedules so that they may participate. Study groups will be assigned their own chatroom with a unique URL. In your first lab period you will be given a live tutorial on using ***COLLABORATE*** by your instructor.

A total of 28 chat sessions are possible over the semester (excluding Spring Break). I will randomly grade 10 of these sessions, assessing the performance of each student. Students will receive an individual-based grade for their participation in those graded sessions. If you happen to miss participating in a graded session, you will not be able to make it up and you will receive zero points for that session. I will not announce grading bouts.

i>CLICKER2

Questions and quizzes will be given during lecture using the i>Clicker2 system. i>Clicker2 is a response system that allows you to respond to questions posed during class. Your study group will be graded on that feedback and/or participation. Your study group is required to purchase a single i>Clicker2 remote for in-class participation. We will start using this system by Thursday, Feb. 2.

If a group doesn't have their remote, they will not receive credit for responses that day. To receive credit for your responses, the group leader must register the i>Clicker2 at *http://www.iclicker.com* before 15 February.

When you (the group leader) register your group's i>Clicker2, use the name *exactly* shown on your university identification card and the serial number on the back of your i>Clicker2 unit. Incorrect or late i>Clicker2 registration will result in no credit being earned for responses. Questions may come from current or previous material and may include multiple choice, true/false, fill in the blank or even short essay answers.

ATTENDANCE AND PARTICIPATION

Regular attendance is vital to your success in this course. Therefore, I will be taking roll at the beginning of class every single day. Each absence or tardy arrival will result 5 points being deducted from your iclicker participation total, even if the point deduction exceeds the number of points earned by your group using iclicker that day. In the event of documented compelling circumstances, attempts will be made to work out conflicts prior to the absence.

Attendance requires not only your physical presence, but your attention and participation as well. Students who are physically present, but inattentive (such as sleeping) will be marked absent. Turn off your cell phones when you arrive each day, and **do not text in class. It is rude.** Use of laptops to take notes is forbidden; take notes by hand. I will not be making PowerPoint lectures available for student download. You are responsible for taking notes during lecture.

TIPS FOR SUCCESS

This course has a reputation for being challenging however, it can be made much easier if you heed the following advice:

- Attend and actively participate in lecture and lab.
- Preview relevant material before lecture and lab.
- Take good notes in class and review your notes often.
- Make use of the index and glossary and a dictionary to help you understand terminology.

PERSONAL INTEGRITY

It is assumed that you have read and understand the university's position on academic integrity and student discipline. Students are expected to conduct themselves responsibly and will treat instructors, their fellow students, the facilities, and course materials with courtesy and respect. Inappropriate behavior (including, but not limited to, cheating and/or plagiarism) will be dealt with as severely as university and state regulations allow.

OPEN LAB

The anatomy lab (N224) will be available for study when it is not being used by another class. The semester schedule is posted on the lab door. It is highly recommended that you and your study group make use of this time to finish dissections.

COURSE OBJECTIVES

Students who successfully complete this course will:

- Understand the fundamental organization of the human body, the major features and interrelationships of the organ systems, and the relationship of structure and function
- Visualize internal anatomy and to relate this to surface features
- Understand lectures, texts, articles, and clinical demonstrations that you may encounter in subsequent classes
- Understand the nature of science and to the biological significance of animal structure
- Develop your care in verbal expression (including the precise use of English and scientific terminology) and habits of logical and critical thinking

Lecture			Lab	
Date		**Text**	**Date**	
1/26	Introduction	Ch. 1	1/26	Introduction, *COLLABORATE* tutorial Organization of the Human Body
1/31	Skeletal System	Ch. 6	2/2	Skeletal System
2/2		Ch. 7		
2/7		Ch. 8	2/9	
2/9		Ch. 9		
2/14	Muscular System	Ch. 10	2/16	Muscular System Begin cat dissection
2/16				
2/21	**LECTURE EXAM 1**			
2/23	Muscular System cont.	Ch. 11	2/23	
2/28				
3/1			3/1	**LAB PRACTICAL EXAM 1**
3/6	Respiratory System	Ch. 23	3/8	Respiratory System
3/8				
3/13	Digestive System	Ch. 24	3/15	Digestive System
3/15				
3/20			3/22	
3/22	Circulatory System	Ch. 20	3/29	Circulatory System
3/27				
3/29		Ch. 21		
4/3			4/5	
4/5	**LECTURE EXAM 2**			
4/10	SPRING BREAK		4/12	SPRING BREAK
4/13				
4/17	Urinary System	Ch. 26	4/19	Urinary and Reproductive Systems
4/19				
4/24	Reproductive System	Ch. 28		
4/26			4/26	Nervous System
5/1	Nervous System: Tissue	Ch. 12		
5/3	Nervous System: Brain, Spinal Cord	Ch. 13, 14	5/3	
5/8	Nervous System: Somatic NS	Ch. 15		
5/10			5/10	**LAB PRACTICAL EXAM 2**
5/15	Nervous System: Autonomic NS	Ch. 16		
5/17	**LECTURE FINAL EXAM 8:30-10:30 am in regular classroom**			