

Dr. Terry D. Jones

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COURSE DESCRIPTION

This course is an introduction to gross, microscopic, and functional anatomy of the organ systems the human body. You must be concurrently enrolled in lecture and lab. While lecture and lab are related, the material covered in each may differ in content and/or focus. This course is specifically for students desiring to enter a nursing program. BIOL 1010/1020 or BIOL 1050 (or equivalents) are recommended prerequisites. Completion of all remedial courses is a pre-requisite for this course; if you have not successfully completed these, 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 two hours of preparation and/or review are needed outside of class for every hour in class (lecture and/or lab). If you are not prepared to dedicate the time and effort needed for this course, you should reconsider your enrollment. Each lecture and lab is organized with the assumption that you have read the assigned material prior to class.

COURSE OBJECTIVES

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

REQUIRED TEXTS/MATERIALS

- Marieb, E. N. *et al.* 2008. *Human Anatomy*, 5e. Benjamin Cummings
- Jones, T. D. Lab Manual for Human Anatomy, XanEdu
- Singh, S. and Ernst, E. 2008. *Trick or Treatment*. WW Norton
- i>Clicker remote
- Dissection kit (blunt/sharp surgical scissors, iris scissors, scalpel handle and blades, medium forceps, blunt probe, dissecting needles)
- Gloves (nitrile, rather than latex, gloves are recommended)

Science is nothing but developed perception, interpreted intent, common sense rounded out and minutely articulated.

—George Santayana

RECOMMENDED TEXTS/MATERIALS

- Borror, D. J. 1988. *Dictionary of Word Roots and Combining Forms*. Mayfield
- Kapit, W. and Elson, L. M. 2002. *The Anatomy Coloring Book*, 3e. Benjamin-Cummings
- Gilbert, S. G. 1968. *Pictorial Anatomy of the Cat*, Revised edition. University of Washington Press
- Lab coat (or old shirt)

ATTENDANCE

Regular attendance is vital to your success in this course. Therefore, you are expected to attend regularly, come to class on time, and complete assigned readings. Attendance requires not only your physical presence, but your attention and participation as well. Students who are physically present, but inattentive (including, but not limited to, sleeping, excessive conversation, texting, e-mailing, web-surfing, being disruptive, arriving late, leaving early, etc.) may be asked to leave. In the event of documented compelling circumstances, attempts will be made to work out conflicts prior to the absence. Unexcused absences for gradable events will result in no score. Lab practical exams are very time-consuming to set up; make-up lab practical exams will not be given.

COURSE DROP AND WITHDRAWAL POLICY

The drop policy for this course is the same as the university policy (CSU Stanislaus University Catalog: Academic Policies and Procedures): “Adding or dropping courses after the Enrollment Census Date [23 February] will not be allowed. After the Enrollment Census Date, students are responsible for completion of the course(s) in which they are enrolled.” Withdrawal from courses after the Enrollment Census Date may be allowed “for documented extreme circumstances beyond the student’s control”. Illness and similar catastrophes may qualify; academic difficulties do

not. Withdrawal from the course must be approved by the instructor, the chair of the Department of Biological Sciences, and the dean of the College of Natural Sciences, before being submitted to Student Affairs for approval.

RECORDING POLICY

The use of audio and/or video recorders or cameras is not permitted during lecture or lab. An exception is made for students who are registered with Disability Resource Services and approved for this accommodation. If you do not intend to comply with this policy, please enroll in another class.

STUDENTS WITH DISABILITIES

Students with documented disabilities need to make an appointment with the instructors as soon as possible to discuss course adaptations and/or accommodations. If you have an undocumented disability, contact Student Support Services.

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, staff, fellow students, facilities, and course materials with courtesy and respect. This includes, but is not limited to, being on time, not being disruptive in class, and turning off cell phones, etc. before coming to class. Inappropriate behavior will be dealt with as severely as university and state regulations allow. In addition, misuse of lab materials (including incorrect use of microscopes) will result in lost points and may result in grades being withheld until the department has been compensated for damaged materials.

QUIZZES

To help convince students to study throughout the term, actively participate in class, and to keep up with assigned reading, quizzes will be given during lecture using the i>Clicker system. i>Clicker is a response system that allows you to respond to questions posed during class; you may be graded on that feedback and/or participation. The i>Clicker may also be used for polling, provoking discussions, etc.; information from these types of questions is not recorded, so your anonymity is guaranteed. You are required to purchase an i>Clicker remote for in-class participation; you must bring it beginning the second day of class. i>Clicker may be used each day in lecture, and you are responsible for bringing your remote daily; if you don't have it you will not receive credit for responses. To receive credit for your responses, you must register your i>Clicker at <http://www.iclicker.com> before 14 February. When you register your i>Clicker, use the name and ID number *exactly* shown on your university identification card and the serial number on the back of your i>Clicker unit. Incorrect or late i>Clicker registration will result in no credit being earned for responses. Students may respond using only their own i>Clicker; using a classmate's i>Clicker to respond is dishonest and both students risk expulsion from the class and a failing grade (see Personal Integrity). Quizzes are "bonus" points; a maximum of 10% (50 points) of the total possible points may be earned from quizzes. Quiz questions may come from current or previous material.

EXAMS

Exams are written with the course objectives in mind. Exam questions are written, in technical and standard English. Because the information in this course cannot be divided into separate, discreet units, exams will, to some extent, be cumulative. Unless otherwise stated, exams will begin at the beginning of the scheduled class time. Students who are tardy will not be able to take the exam.

Correct spelling and grammar are necessary for effective communication. Poor spelling and grammar are signs of intellectual immaturity and/or carelessness. Therefore, spelling and/or grammatical errors will result in loss of points on exams; illegible and/or unintelligible answers will receive no credit.

Lecture Exams

Lecture exams will focus on material covered in lecture and assigned readings. In addition, while they will not include specific questions from dissection, material presented in lab, the lab manual, or any other materials that may be handed out in lecture or lab are all sources of possible questions for exams. There will be two exams (100 points each) and a cumulative final (100 points). Exams may consist of a combination of question styles.

Lab Practical Exams

There will be two lab exams (150 points each). Lab exams will be in a timed, practical format and will focus on identification and understanding of relationships and function. Anything included in the lab manual may be included

It is shameful for man to rest in ignorance of the structure of his own body, especially when the knowledge of it mainly conduces to his welfare, and directs his application of his own powers.

— Philip Schwarzerd

on these exams. Lab practical exams may also include material from previous exams and, as a way of testing your understanding, may include unknowns (*i.e.*, material that you may not have not seen in class). Lab practical exams are very time-consuming to set up; make-up lab practical exams will not be given. As a way of testing your understanding, lab exams may include unknowns (*i.e.*, material that you have not seen in class).

GRADING

Your grade will be determined by your combined performance in lecture and lab. Points are awarded for your understanding of the material in this course and your ability to communicate your knowledge. Separate grades are not assigned for the lab. The CR/NC grading option is not approved by the University for this course; only letter grades can be earned. The use of +/- grades is at the instructors' discretion. Because of potential privacy issues, scores and/or grades will not be given out *via* e-mail or phone. It is expected that students will keep track of their scores (including all graded materials) for the duration of the term. Scores will be available from <http://biology.csustan.edu/~jones/jones-moodle>. After the end of the term, students may access their course grades from <http://my.csustan.edu>. A total of 600 points are available from lecture and lab exams. There will be no other points or assignments available beyond those mentioned herein. Letter grades will be assigned as follows:

A	Student has demonstrated a high level of competence in meeting course objectives	≥ 425 points (85%)
B	Student has demonstrated a more than satisfactory level of competence in meeting course objectives	≥ 375 points (75%)
C	Student has demonstrated a satisfactory level of competence in meeting course objectives	≥ 325 points (65%)
D	Student has demonstrated only a barely passing level of competence in meeting course objectives	≥ 250 points (50%)
F	Student has not demonstrated a minimally passing competence in meeting course objectives	< 250 points

OPEN LAB

The anatomy lab (N224) will be available for study when it is not being used by another class. It is highly recommended that you make use of this time to study and review. However, any inappropriate use of the lab or the destruction or loss of lab materials during open lab will result in cancellation of this privilege for the duration of the term for all students.

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.
- If you have questions, ask.

There are, in fact, two things, science and opinion; the former begets knowledge, the latter ignorance.

—Hippocrates

Additional information regarding strategies for successful learning is available from the Moodle page (<http://biology.csustan.edu/~jones/jones-moodle>). Print these pages, read them, and put them in your notebook to reference throughout the term.

COURSE INFORMATION

The syllabus, lecture schedules, lab schedules, as well as any relevant announcements or other information will be posted on <http://biology.csustan.edu/~jones/jones-moodle>. Communication regarding the course will be done *via* this site and e-mail; it is your responsibility to check these regularly.

IMPLIED CONTRACT

This syllabus serves as a contract between you and the instructor. Your continued enrollment in this class implies your understanding of and agreement with the material in the syllabus as well as in the introductory section of the lab manual. You are expected to print this syllabus and keep it in your notebook to refer to during the semester.

Course Schedule

Date	Lecture Topic	Text ²	S&E	Date	LabTopic					
28 Jan	Science, Human Anatomy	LM 1, 2; Ch. 1	Intro.							
31 Jan	Cells, Embryology	Ch. 2, 3		Ch. 1	01/02 Feb	Introduction, Overview of Human Anatomy, Organization of the Human Body				
02 Feb										
04 Feb	Microanatomy/Tissues	Ch. 4			Ch. 2	08/09 Feb	Microscopy, Basics of Microanatomy			
07 Feb										
09 Feb										
11 Feb	Integumentary System	Ch. 5				Ch. 3	15/16 Feb	Basics of Microanatomy (cont'd), Integumentary System		
14 Feb										
16 Feb	Bones, Skeletal Tissues, and Joints	Ch. 6-9					Ch. 4	22/23 Feb	Skeleton System	
18 Feb										
21 Feb										
23 Feb	Skeletal Muscle Tissue and Muscles	Ch. 10, 11						Ch. 5	01/02 Mar	Dissection; Microanatomy of Muscles; Macroanatomy of Muscles
25 Feb										
28 Feb										
02 Mar										
04 Mar	No class		Ch. 6	08/09 Mar					Macroanatomy of Muscles (cont'd)	
07 Mar	Exam 1			15/16 Mar	Practical 1					
09 Mar	Cœlom and Viscera	Ch. 22-23		Ch. 7	29/30 Mar				Cœlom, Respiratory System, and Digestive System	
11 Mar										
14 Mar										
16 Mar										
18 Mar										
28 Mar										
30 Mar	Circulatory System	Ch. 18-21			Ch. 8	05/06 Apr	Circulatory System and Cardiovascular System			
01 Apr										
04 Apr										
06 Apr										
08 Apr										
11 Apr	Urogenital Systems	Ch. 24-25	Ch. 9			12/13 Apr	Cardiovascular System (cont'd)			
13 Apr										
15 Apr										
18 Apr										
20 Apr	Exam 2			Ch. 10		19/20 Apr	Urinary System and Reproductive System			
22 Apr										
25 Apr	Nervous System	Ch. 12-16				Ch. 11	26/27 Apr	Nervous System		
27 Apr										
29 Apr										
02 May										
04 May										
06 May										
09 May										
11 May										
13 May	Endocrine System	Ch. 17	Ch. 12		03/04 May		Autonomic Nervous System and Senses			
16 May										
18 May					10/11 May		Précis and Surface Anatomy			
20 May	Final Exam (8:30-10:30 AM)			17/18 May	Practical 2					

¹The lecture schedule is tentative and will likely change. However, exam dates will not change.

²These are suggested pages for the topic; there may be other pages in the text that are applicable. It is recommended that you read the entire chapter and make use of the table of contents and index.