

**IPHY 3410 section 001 - Introduction to Human Anatomy
Lecture Syllabus (Fall, 2011)**

INSTRUCTOR:

Dr. Leif Saul
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GENERAL COURSE INFORMATION:

Meeting time: TuTh 11:00-12:15
Meeting location: Ramaley C250
Prerequisites: EBIO 1210, 1220, 1230, 1240; or equivalent sequence.

COURSE OBJECTIVE:

IPHY 3410, Introduction to Human Anatomy, is a 3-credit lecture course for students interested in areas related to human structure, health, and performance. A structure/function approach provides the background required to understand the material in the course, which is necessary for further study in professions such as nursing, physical therapy, sports and leisure studies, medical technology and related fields. **Note:** Human Anatomy Lab (IPHY 3415) is a separate course. It does *not* need to be taken with this course, but it *is* required for completion of the IPHY major and for entrance into some health-related professional programs. Taking only this lecture may not meet the requirement for these professional programs unless the lab is also taken. Consult with your advisor if you have questions about this.

TEXTBOOK AND I-CLICKER:

Human Anatomy (6th edition), Marieb, Wilhelm, and Mallatt—required. **Note:** The textbook sold new at the campus bookstore comes with two resources that are used in Human Anatomy Lab (IPHY 3415): A disc (Practice Anatomy Lab 3.0) and A Brief Atlas of the Human Body (2nd edition). ***i-clicker***—required. **Note:** You must register your clicker to obtain clicker points. See <http://www.colorado.edu/its/cuclickers/students/register.html>.

WEB SITES:

Useful, sometimes necessary, information and resources will be provided online at <http://www.colorado.edu/intphys/iphy3410saul> and <https://culearn.colorado.edu>. You will need your CU login name and IdentiKey password to access CULearn, which is necessary to complete the homeworks, check your scores, and obtain other resources.

LECTURE NOTES:

PowerPoint files will be provided on CULearn by 4 pm the day before the lecture. You should print these out and use them as an aid in note-taking. **Important:** Anatomy is a visual subject, and accordingly you will be asked to draw diagrams in your notes, so bring paper and pen/pencil for that purpose. Some diagrams will be provided, unlabeled, on the PowerPoint for you to label during class.

DISABILITIES: If you qualify for accommodations because of a disability, please submit to the instructor a letter from Disability Services (303-492-8671, Center for Community N200, <http://www.colorado.edu/disabilityservices/>) in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. **Note:** See guidelines at <http://www.colorado.edu/disabilityservices/go.cgi?select=temporary.html> for information about dealing with temporary medical conditions. **ACADEMIC INTEGRITY:** All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>. **RELIGIOUS OBSERVANCES:** Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please notify the instructor within the first two weeks of the semester of any conflict. For more information: http://www.colorado.edu/policies/fac_relig.html. **CLASSROOM BEHAVIOUR:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see <http://www.colorado.edu/policies/classbehavior.html> and http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code. **DISCRIMINATION AND HARASSMENT:** The University of Colorado at Boulder Discrimination and Harassment Policy and Procedures, the University of Colorado Sexual Harassment Policy and Procedures, and the University of Colorado Conflict of Interest in Cases of Amorous Relationships policy apply to all students, staff, and faculty. Any student, staff, or faculty member who believes s/he has been the subject of sexual harassment or discrimination or harassment based upon race, color, national origin, sex, age, disability, creed, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Student Conduct (OSC) at 303-492-5550. Information about the ODH, the above referenced policies, and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>. **INCOMPLETES:** The use of incompletes will adhere to the College of Arts and Sciences rules: "An IF is given only when students, FOR REASONS BEYOND THEIR CONTROL, have been unable to complete course requirements. A substantial amount of work must have been satisfactorily completed before approval of such a grade is given."

GRADING:

The total number of points possible in the course is 490.

Exam 1	100 pts
Exam 2	100 pts
Exam 3	100 pts
Final Exam	100 pts
Clicker points	20 pts
<u>Homeworks (14 x 5 pts)</u>	<u>70 pts</u>
Total:	490 pts

Grades will be assigned based on the scale below. If the semester average for the course is **BELOW** 75%, this average will be adjusted to 75% by adding points to every student's grades to accomplish a 75% course average. No adjustments will be made if the course average is 75% or above.

A= 93.34-100%	B-= 80-83.33%	D+= 66.67-69.9%
A-= 90-93.33%	C+= 76.67-79.99%	D= 63.34-66.66%
B+= 86.67-89.99%	C= 73.34-76.66%	D-= 60-63.3%
B= 83.34-86.66%	C-= 70-73.33%	F= less than 60%

Exams: In general, everything presented in lectures is covered on exams. Some topics will receive more or less emphasis, as will be explained in class. Material in the textbook that is not presented in class will not be covered on exams, unless a specific exception is announced. Each exam consists of 50 multiple-choice questions. Exams 1, 2 & 3 will each cover only the lectures relevant to that section. The final exam will be 70% new material and 30% comprehensive. A list of topics to be covered in the comprehensive section will be provided.

Exam policy: FOUR exams (including a final) will be given in this course. All FOUR exams will count toward your final grade. If, for a valid reason, you must miss an exam, the missed exam will be prorated (calculated as the mean of your other 3 exams). ***A medical certificate signed by a certified medical doctor or a documented family emergency or required participation as a CU student-athlete are the ONLY acceptable excuses for missing an exam.*** This syllabus provides detailed information on the dates of exams and final, so please schedule your travel plans accordingly. Conflict with students' travel schedules ****CANNOT**** be used as an excuse for missing exams or taking exams at a different time. There will be **NO** exceptions.

Clicker points: The class will be asked several questions during each lecture to answer individually using *i>clickers*. Some questions will be performance questions (correct answer required for credit) and the rest will be participation questions (any answer submitted will receive credit). The total number of points offered in this way will be at least 26 (each full-length lecture will have several clicker questions, adding to about 1 point per lecture). Up to a maximum of 20 points earned in this way will be counted towards your grade. Thus, you can miss 6 clicker points (due to absence from class, clicker malfunction, incorrect answer submission, etc.) and still receive the maximum of 20 clicker points. It is your responsibility to make sure your clicker is working correctly. No make-ups or prorates of clicker questions are allowed.

Homework: Fifteen homework assignments will be provided throughout the semester, each worth 5 points, and the lowest score will be dropped (for a total of 70 points). These assignments will be posted and submitted through CULearn, and will be due by 11 pm on the assigned due date. For each homework, you can submit as many times as you like, and only the highest score will count toward your grade. **No** make-ups or late submissions are allowed for **any** reason, so you should ***submit homeworks well in advance of the due date***, in case your computer crashes, your internet access is disrupted, you suffer a medical emergency, etc. Documentation of a ***severe and prolonged medical or family emergency*** is required to prorate homeworks.

Extra credit: Any opportunities to obtain extra credit will be offered to the entire class. It is not possible to obtain extra credit on an individual basis.

Lecture	Date	Topic	Reading in Marieb et al
1	Tu 8/23	Introduction; cells & tissues	Ch. 1, 2 & 4
2	Th 8/25	Epithelial tissue	Ch. 4 pp. 65-76
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	<i>M 8/29</i>	<i>Homework #1 DUE by 11 pm</i>	
3	Tu 8/30	Connective tissue	Ch. 4 pp. 77-88
4	Th 9/1	Body cavities and membranes	Ch. 1 pp. 11-12, ch. 4 pp. 88-90
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	<i>M 9/5</i>	<i>Homework #2 DUE by 11 pm</i>	
5	Tu 9/6	Integumentary system	Ch. 5
6	Th 9/8	Bones and bone tissue	Ch. 6
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	<i>M 9/12</i>	<i>Homework #3 DUE by 11 pm</i>	
7	Tu 9/13	Bones and bone tissue	Ch. 6
8	Th 9/15	Joints	Ch. 9
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	<i>M 9/19</i>	<i>Homework #4 DUE by 11 pm</i>	
9	Tu 9/20	Joints	Ch. 9
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Thursday Sept. 22		EXAM I (covers lectures #1 - #8)	
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	<i>M 9/26</i>	<i>Homework #5 DUE by 11 pm</i>	
10	Tu 9/27	Skeletal muscle	Ch. 4 pp. 90-91; ch. 10
11	Th 9/29	Cardiac & smooth muscle	Ch. 19 pp. 568-9; ch. 23 pp. 673-5
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	<i>M 10/3</i>	<i>Homework #6 DUE by 11 pm</i>	
12	Tu 10/4	Digestive system	Ch. 23
13	Th 10/6	Digestive tract	Ch. 23 pp. 671-693
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	<i>M 10/10</i>	<i>Homework #7 DUE by 11 pm</i>	
14	Tu 10/11	Accessory digestive organs	Ch. 23 pp. 693-699
15	Th 10/13	Respiratory system	Ch. 22
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	<i>M 10/17</i>	<i>Homework #8 DUE by 11 pm</i>	
16	Tu 10/18	Respiratory system	Ch. 22
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Thursday Oct. 20		EXAM II (covers lectures #9 - #15)	
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Lecture	Date	Topic	Reading in Marieb et al
	<i>M 10/24</i>	Homework #9 DUE by 11 pm	
17	Tu 10/25	Heart & circulatory routes	Ch. 19
18	Th 10/27	Blood & blood vessels; lymphatic & immune systems	Ch. 18, 20 & 21
	<i>M 10/31</i>	Homework #10 DUE by 11 pm	
19	Tu 11/1	Nervous system	Ch. 12
20	Th 11/3	Brain	Ch. 13 pp. 379-382, 407-411
	<i>M 11/7</i>	Homework #11 DUE by 11 pm	
21	Tu 11/8	Brain regions	Ch. 13 pp. 383-408
22	Th 11/10	Spinal cord	Ch. 13 pp. 374-379
	<i>M 11/14</i>	Homework #12 DUE by 11 pm	
23	Tu 11/15	Peripheral & autonomic nervous systems	Ch. 14 & 15
Thursday Nov. 17 EXAM III (covers lectures #16 - #22)			
	Tu 11/22	FALL BREAK – NO CLASS	
	Th 11/24	THANKSGIVING HOLIDAY – NO CLASS	
	<i>M 11/28</i>	Homework #13 DUE by 11 pm	
24	Tu 11/29	Special senses	Ch. 16
25	Th 12/1	Special senses	Ch. 16
	<i>M 12/5</i>	Homework #14 DUE by 11 pm	
26	Tu 12/6	Urinary system	Ch. 24
27	Th 12/8	Reproductive system	Ch. 25
	<i>Th 12/8</i>	Homework #15 DUE by 11 pm	

Monday Dec. 12 FINAL EXAM
4:30 pm - 7:00 pm, Ramaley C250 (same as lecture room)

70% of final exam covers lectures #23 - #27

30% of final exam covers selected topics from lectures #1 - #22