

**IPHY 3410 Section 1 - Introduction to Human Anatomy
Lecture Syllabus (Fall 2018)**

INSTRUCTOR:

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Teaching Assistants:

<http://spot.colorado.edu/~saul/iphy3410/officehours.html>

GENERAL COURSE INFORMATION:

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

ATTENDANCE: If the course is full, students who do not attend at all the first week may be dropped from the course. ***Use your i>clicker to prove you attended during the first week.***

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, and related fields. **Note:** Human Anatomy Lab (IPHY 3415) does *not* need to be taken concurrently with this course, but it *is* required for completion of the IPHY major and for admission to some professional programs.

TEXTBOOK AND I-CLICKER:

Human Anatomy (8th ed.), Marieb, Wilhelm, and Mallatt—required. Use the Pearson link on D2L to access the eText. Access code to Mastering A&P (including eText), along with info on opting out, will come by email at start of semester. Your tuition will be billed \$77.78 unless you opt out by Sep. 12. If you opt out, you must obtain the textbook by other means. **Note:** In this section, the other features of Mastering A&P are not used, but they are required in the Anatomy Lab. See <http://spot.colorado.edu/~saul/iphy3410/textbook.html> for more information. **i>clicker**—required. **Note:** Your clicker must be registered at MyCUInfo to obtain clicker points. See <http://www.colorado.edu/oit/tutorial/cuclickers-iclicker-remote-registration>.

WEBSITES:

You will need to use two websites in this course:

Public site: <http://spot.colorado.edu/~saul/iphy3410/> - syllabus, FAQ, practice exam Qs, etc.

D2L: <https://learn.colorado.edu> - PowerPoint slides, homeworks, worksheets, scores, textbook, etc.

LECTURE NOTES:

PowerPoint files (both an Intro file and Content file(s)) will be provided on D2L by 4 pm the day before each lecture. You should bring them to class (digital or printed) as an aid in taking notes. **Note:** Visual diagrams are important in anatomy, so be prepared to draw or label diagrams during lecture.

TERMS OF USE: Recording/duplicating/transmitting course materials, beyond normal note-taking, is subject to restrictions; see <http://spot.colorado.edu/~saul/iphy3410/termsfuse.html>.

Disabilities: If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu for further assistance. If you have a temporary medical condition or injury, see [Temporary Medical Conditions](#) under the Students tab on the Disability Services website. **Honor Code:** All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code (honor@colorado.edu); 303-492-5550). Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found at the [Honor Code Office website](#). **Religious Observances:** Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly 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. See [campus policy regarding religious observances](#). **Classroom Behavior:** 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 race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. 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 the policies on [classroom behavior](#) and the [Student Code of Conduct](#). **Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation:** The University of Colorado Boulder (CU Boulder) is committed to fostering a positive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (including sexual assault, exploitation, harassment, dating or domestic violence, and stalking), discrimination, and harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or cureport@colorado.edu. Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources can be found on the [OIEC website](#). Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources. **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 allocation of points in the course is as follows:

Exam 1	100 pts
Exam 2	100 pts
Exam 3	100 pts
Final Exam	100 pts
Clicker points	20 pts
Homeworks (14 x 5 pts)	70 pts
Worksheets (6 x 2 pts)	12 pts
<u>Syllabus quiz</u>	<u>5 pts</u>
Total:	507 pts

Grades will be assigned based on the percent earned out of 507, using the scale below.

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:** All testable material is provided on the PowerPoint slides. Slides not shown in class (for lack of time) are still covered on exams. Use textbook *only for help in learning material from slides.* Each exam consists of 50 multiple-choice questions. Each midterm (Exams 1, 2 and 3) covers only the slides in that unit. Final exam is 70% new material, 30% comprehensive; topics for comprehensive section are listed on course website. *Not bubbling correct exam version results in 2-point penalty.*
- **Exam policy:** All 4 exams count toward final grade. Once you take an exam, no adjustments can be made to your score; if you face a crisis listed below in bold, you must decide *before* exam whether to take it. Missed exams receive 0 unless you provide ***medical certificate signed by certified medical doctor; documentation (from relevant authority) of family emergency; letter from CU Athletics requiring your participation as CU student-athlete; or proof of major employment/career obligation with inflexible date.*** In these cases, for midterm exams, makeups are not an option, but score can be prorated (calculated as mean of your other exams); for final exam, prorating is not an option, but makeup can be arranged (typically with Incomplete grade). Conflict with plane tickets is ***not*** a valid excuse for missed exams. Taking exams off-campus (e.g. due to athletic travel) is not allowed.
- **Clicker points:** Set your *i>clicker* to the room code at start of each lecture. Each lecture offers about 1 pt. total of performance questions (correct answer required) and/or participation questions (any answer receives credit), at 0.25 or 0.5 pt. each. 26 pts. will be offered in this way, but only up to 20 clicker points will be counted towards your grade. ***Thus, you can miss 6 clicker pts. (due to absence, dead battery, wrong answer, etc.) and still receive the full 20 clicker points, so no make-ups or prorates of clicker questions are allowed.*** Clicker answers may only be submitted by clicker, during lecture clicker sessions. Check D2L gradesheet often to verify your clicks are being received. Any information in clicker questions that is not covered on lecture slides will not be covered on exams.
- **Homework:** 15 homeworks (HW) are provided, each worth 5 pts.; lowest score is dropped (= 70 pts. total). HWs are submitted ***only*** through Quiz tool on D2L, and are due by 11 pm. You can submit each HW unlimited times; only the highest score is used. HW scores are not revealed until after the deadline. Deadlines are absolute; no make-ups are allowed for ***any*** reason. ***Submit HW well in advance of due date***, in case of internet disruption, bug in D2L, medical emergency, etc. Documentation of ***severe, prolonged medical emergency*** is required to prorate HW. Failing to ***save*** an answer earns 0 pts. for that question. ***If you have saved answers but do not submit a HW, I will submit it for you only if you ask me to do so by the day of the final exam, and it will cost you 1 pt each time.***
- **Syllabus quiz:** You can submit this unlimited times, and only the highest score is used. Unlike HWs, the overall score and your responses are visible immediately after submission.
- **Worksheets:** There will be 8 worksheets, each worth 2 pts.; the two lowest scores are dropped (= 12 pts. total). You will begin filling them out during designated periods in class. **Worksheets are due by 11 pm** (for dates, see course schedule, below). You must upload the completed worksheet to D2L dropbox for credit. The goal is to promote drawing, reorganization, and application to better learn the material. Key/example will be posted after due date. Scores of 0, 1, or 2 will be assigned based mainly on effort.
- **Special treatment:** *It is not possible to obtain extra credit on an individual basis* (e.g. special assignments to help you reach a grade cutoff at end of semester). ***Applying the rules on the syllabus equally to all students*** is a fundamental policy in this course, with ***one*** exception: You may receive extra time on exams if you present documentation from **Disability Services** (see p. 2). In this case you must arrange free time in your schedule after class, because ***all midterms will start at 11 am.***
- **Wait list:** Wait-listed students can and should submit assignments and answer clicker questions.

Note on worksheets: In-class activities are in italics (“*Wksht*”) and due dates are in **bold**.

Lecture	Date	Topic	Reading in Marieb et al.
1	Tu 8/28	Introduction; spatial terms, cells & tissues	Ch. 1, 2 & 4
2	Th 8/30	Epithelial tissue	Ch. 4 pp. 65-76, 90
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	<i>M 9/3</i>	<i>Homework #1 DUE by 11 pm (Labor Day holiday)</i>	
3	Tu 9/4	Connective tissue	Ch. 4 pp. 77-89, 91
4	Th 9/6	Body cavities & membranes	Ch. 1 pp. 11-13; ch. 4 pp. 89, 92
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	<i>M 9/10</i>	<i>Syllabus Quiz and Homework #2 DUE by 11 pm</i>	
5	Tu 9/11	Integumentary system; <i>Wksht #1</i>	Ch. 5
6	Th 9/13	Bones and bone tissue	Ch. 6; ch. 18 pp. 553-554
	F 9/14	<i>Worksheet #1 due by 11 pm</i>	
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	<i>M 9/17</i>	<i>Homework #3 DUE by 11 pm</i>	
7	Tu 9/18	Bone tissue & bone formation	Ch. 6
8	Th 9/20	Bone formation & growth, pathology; <i>Wksht #2</i>	Ch. 6
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	<i>M 9/24</i>	<i>Homework #4 and Worksheet #2 DUE by 11 pm</i>	
9	Tu 9/25	Joints	Ch. 9
Thursday Sep. 27 EXAM I (Ramaley C250; covers slides 01Basics - 06Bones)			
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	<i>M 10/1</i>	<i>Homework #5 DUE by 11 pm</i>	
10	Tu 10/2	Joint movement & shapes, pathology	Ch. 9
11	Th 10/4	Skeletal muscle; <i>Wksht #3</i>	Ch. 4 pp. 93-94; ch. 10
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	<i>M 10/8</i>	<i>Homework #6 and Worksheet #3 DUE by 11 pm</i>	
12	Tu 10/9	Cardiac & smooth muscle	Ch. 19 pp. 575-7; ch. 23 pp. 685-6
13	Th 10/11	Digestive system	Ch. 23 pp. 676-85, 686-7
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	<i>M 10/15</i>	<i>Homework #7 DUE by 11 pm</i>	
14	Tu 10/16	Digestive tract organs	Ch. 23 pp. 687-699
15	Th 10/18	Digestive tract organs; <i>Wksht #4</i>	Ch. 23 pp. 700-706
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	<i>M 10/22</i>	<i>Homework #8 and Worksheet #4 DUE by 11 pm</i>	
16	Tu 10/23	Accessory digestive organs; resp. system	Ch. 23 pp. 706-11; ch. 22
Thursday Oct. 25 EXAM II (Ramaley C250; covers slides 07Joints - 09Digestive1)			
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	<i>M 10/29</i>	<i>Homework #9 DUE by 11 pm</i>	
17	Tu 10/30	Respiratory tract, ventilation	Ch. 22
18	Th 11/1	Cardiovascular system, heart	Ch. 19

Lecture	Date	Topic	Reading in Marieb et al.
	<i>M 11/5</i>	Homework #10 DUE by 11 pm	
19	Tu 11/6	Blood & blood vessels	Ch. 18 pp. 546-53; ch. 20 pp. 588-95
20	Th 11/8	Lymphatic, immune, and nervous systems; <i>Wksht #5</i>	Ch. 21; ch. 12
	<i>M 11/12</i>	Homework #11 and Worksheet #5 DUE by 11 pm	
21	Tu 11/13	Nervous tissue & anatomy, brain devel.	Ch. 12; ch. 13 pp. 375-77
22	Th 11/15	Cerebrospinal fluid, cerebral cortex; <i>Wksht #6</i>	Ch. 13 pp. 401-7, 388-96
	Tu 11/20	FALL BREAK – NO CLASS	
	Th 11/22	THANKSGIVING – NO CLASS	
	<i>M 11/26</i>	Homework #12 (Caution: 1-week limit) and Wksht #6 DUE by 11 pm	
23	Tu 11/27	Brain regions, spinal cord	Ch. 13 pp. 378-87, 396-401, 407-12
Thursday Nov. 29 EXAM III (Ramaley C250; covers slides 10Digestive2 - 14Nervous1)			
	<i>M 12/3</i>	Homework #13 DUE by 11 pm	
24	Tu 12/4	Peripheral & autonomic nervous systems	Ch. 14, 15
25	Th 12/6	Sensory system; ear; <i>Wksht #7</i>	Ch. 14 p. 429; ch. 16 pp. 506-517
	<i>M 12/10</i>	Homework #14 and Worksheet #7 DUE by 11 pm	
26	Tu 12/11	Hearing & vision; <i>Wksht #8</i>	Ch. 16 pp. 506-517, 492-506
27	Th 12/13	Urinary & reproductive systems	Ch. 24; ch. 25 p. 777
	<i>Th 12/13</i>	Homework #15 and Worksheet #8 DUE by 11 pm	

Saturday December 15 FINAL EXAM
1:30 pm – 3:30 pm, Ramaley C250 (same as lecture room)
70% of final exam covers slides **15Nervous2 - 18UrinaryRepro**
30% of final exam covers selected topics from **01Basics - 14Nervous1**

Note: If you provide evidence that you have 3 or more final exams scheduled for the same day, you can change the *last* exam(s) scheduled on that day to a different day. The official policy is at <http://www.colorado.edu/policies/final-examination-policy>. If warranted under this policy, I can usually reschedule you as long as you let me know a few days before the final, but please let me know earlier if possible to ensure a room can be found if necessary.