

**IPHY 3410-Introduction to Human Anatomy  
Lecture Syllabus (Spring, 2009)**

**INSTRUCTOR:**

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**GENERAL COURSE INFORMATION:**

Meeting time: Tu/Th 2:00-3:15 p.m.  
Meeting location: MCDB A2B70  
Prerequisites: EBIO 1210, 1220, 1230, 1240 or equivalent sequence.

**ONLINE INFORMATION:**

There is an IPHY 3410 lecture website <http://www.colorado.edu/intphys/iphy3410lowry> that will be updated regularly. Course policies, syllabus, vocabulary lists, learning goals, lecture outlines, and announcements for the course will be made available via this method. Students should check into this web site periodically to obtain helpful, sometimes necessary, information.

Homework assignments, practice exams, lecture outlines with figures, and grades will be posted at <http://culearn.colorado.edu>. To access this information, you will need your CU login name and IdentiKey password. You must contact ITS if you do not have this information. IT Service Center: 303-735-4357 (5-HELP), [help@colorado.edu](mailto:help@colorado.edu).

**TEXTBOOK:**

*Human Anatomy* (5th edition), Marieb, Mallatt and Wilhelm—required

**i-CLICKERS:**

Required. Please register your i-clicker at <http://www.colorado.edu/its/cuclickers/students/register.html>

**COURSE DESCRIPTION:**

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.

Although students are not required to take the lab (IPHY 3415) with this lecture course, the lab is required for the entrance into a number of health-related professional programs. If you are interested in applying to those programs, taking only this lecture will not meet the requirement unless the lab also is taken. Consult with your advisor if you have questions regarding this matter.

**GRADING:**

The total number of points possible in the course is 500.

Exam 1	100 pts
Exam 2	100 pts
Exam 3	100 pts
Final Exam	100 pts
Homework	80 pts
Clicker questions	20 pts
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	500 pts

Grades will be assigned based on the scale below. If the 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%	C- = 70-73.33%
A- = 90-93.33%	D+ = 66.67-69.9%
B+ = 86.67-89.99%	D = 63.34-66.66%
B = 83.34-86.66%	D- = 60-63.3%
B- = 80-83.33%	F = less than 60%
C+ = 76.67-79.99%	
C = 73.34-76.66%	

**Exams:**

Each exam consists of 50 multiple choice questions. Exams 1, 2 & 3 will cover only material 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 grades. If, for a valid reason, a student must miss an exam, the missed exam will be prorated. ***A medical certificate signed by a certified medical doctor or a documented family emergency 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.

**Homework assignments:**

Sixteen homework assignments will be provided throughout the semester, each worth 5 points for a total of 80 points. These homework assignments will be posted and submitted through CULearn <http://culearn.colorado.edu>, and will be due by 11 p.m. on the assigned due date. Late submissions will not be accepted.

**Clicker points:**

The class will be asked several questions during each lecture to answer using *i-clickers*. For each question, ½ credit will be awarded for participation, ½ credit will be awarded for performance

(answering the question correctly). The total number of points offered in this way will be at least 26 (each full-length lecture will have several clicker questions, adding up to 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 makeup clicker questions are allowed.

### **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.

## **POLICY STATEMENTS**

### **DISABILITIES**

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices/>

If you have a temporary medical condition or injury, see guidelines at <http://www.colorado.edu/disabilityservices/go.cgi?select=temporary.html>

### **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. In this class, please notify the instructor within the first two weeks of the semester of any conflict. See full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

### **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 differences of race, culture, religion, politics, sexual orientation, gender, gender variance, 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. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

### **DISCRIMINATION AND HARASSMENT**

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships 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 Judicial Affairs 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>

### **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](mailto: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/>

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<u>Lecture</u>	<u>Date</u>	<u>Topic</u>	<u>Reading in Marieb, Mallatt, and Wilhelm</u>
L1	Tues 1/13	Introduction to anatomy; cells, histology, and tissue types	Ch. 1 & 2
L2	Thur 1/15	Epithelial tissue	Ch. 4, pp. 69-81
	Mon 1/19	<b>Homework #1 DUE by 11 pm</b>	
L3	Tues 1/20	Connective tissue, membrane	Ch. 4, pp. 81-93
L4	Thur 1/22	Integument and hair	Ch. 5, pp. 106-120
	Mon 1/26	<b>Homework #2 DUE by 11 pm</b>	
L5	Tues 1/27	Cartilage and bone tissues I	Ch. 6, pp. 125-143
L6	Thur 1/29	Cartilage and bone tissues II	Ibid
	Mon 2/2	<b>Homework #3 DUE by 11 pm</b>	
L7	Tues 2/3	Joints I	Ch. 9, pp. 205-234
L8	Thur 2/5	Joints II	Ibid
	Mon 2/9	<b>Homework #4 DUE by 11 pm</b>	
L9	Tues 2/10	Muscle tissue	Ch. 4, pp. 94-96; Ch. 10, pp. 239-251, Table 10.2; Ch. 18, pp. 540-542; Ch. 22, pp. 649-652
	Thurs 2/12	<b>EXAM1 (L1-L8)</b>	
	Mon 2/16	<b>Homework #5 DUE by 11 pm</b>	
L10	Tues 2/17	Muscle tissue	Ibid
L11	Thur 2/19	Digestive system I Gastrointestinal tract	Ch. 22, pp. 645-661, 665-672
	Mon 2/23	<b>Homework #6 DUE by 11 pm</b>	
L12	Tues 2/24	Digestive system II Gastrointestinal movement and secretion	Ch. 22, pp. 662-664, 646 (Fig. 22.3)

L13	Thur 2/26	Digestive system III Liver, pancreas and their secretions	Ch. 22, pp. 672-679
	Mon 3/2	<b>Homework #7 DUE by 11 pm</b>	
L14	Tues 3/3	Respiratory system I Nose, pharynx, larynx, and trachea	Ch. 21, pp. 614-624
L15	Thur 3/5	Respiratory system II Lungs and alveoli	Ch. 21, pp. 624-637
	Mon 3/9	<b>Homework #8 DUE by 11 pm</b>	
L16	Tues 3/10	Cardiovascular system I Anatomy of heart Circulatory routes	Ch. 18, pp. 529-540, 542-548
	Thurs 3/12	<b>EXAM2 (L9-L15)</b>	
	Mon 3/16	<b>Homework #9 DUE by 11 pm</b>	
L17	Tues 3/17	Cardiovascular system II Blood and blood vessels	Ch. 17, pp. 513-524; Ch. 19, pp. 556-562, 584-588
L18	Thurs 3/19	Introduction to the nervous system General organization of the nervous system Neurons and action potential Glial cells	Ch. 4, p. 96; Ch. 12, pp. 346-365
	Tues 3/24	<b>SPRING BREAK—NO CLASS</b>	
	Thurs 3/26	<b>SPRING BREAK—NO CLASS</b>	
	Mon 3/30	<b>Homework #10 DUE by 11 pm</b>	
L19	Tues 3/31	Central nervous system I Anatomy of the brain	Ch. 13, pp. 378-380, 382-405
L20	Thurs 4/2	Central nervous system II Anatomy of the brain/spinal cord	Ch. 13, pp. 373-378, 380-381, 405-419
	Mon 4/6	<b>Homework #11 DUE by 11 pm</b>	
L21	Tues 4/7	Peripheral and autonomic nervous system I	Ch. 14, pp. 426-454; Ch. 15, pp. 459-474
L22	Thur 4/9	Peripheral and autonomic nervous system II	Ch. 15, pp. 459-474

	Mon 4/13	<b>Homework #12 DUE by 11 pm</b>	
L23	Tues 4/14	Special senses I	Ch. 16, pp. 480-506
	Thurs 4/16	<b>EXAM3 (L16-L22)</b>	
	Mon 4/20	<b>Homework #13; #14 (case study) DUE by 11 pm</b>	
L24	Tues 4/21	Special senses II	Ibid
L25	Thurs 4/23	Lymphatic and immune systems	Ch. 20, pp. 595-609
	Mon 4/27	<b>Homework #15 DUE by 11 pm</b>	
L26	Tues 4/28	Urinary system	Ch. 23, pp. 687-705
	Wed 4/29	<b>Homework #16 DUE by 11 pm</b>	
L27	Thurs 4/30	Reproductive system	Ch. 24, pp. 712-743
	Sat 5/2	<b>**FINAL EXAM(L23-L27 and comprehensive material) 7:30 pm-10:00 pm, MCDB A2B70</b>	

**\*\*Final exam is cumulative (70% new/30% old material)**