

# **BIO. 341: THE HUMAN BODY**

Fall 2009

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## **REQUIRED TEXT / MATERIAL (located in Aztec Shops):**

*Essentials of Human Anatomy & Physiology*, 9<sup>th</sup> edition, by Marieb, E. ISBN: 0321582470

(check out "Target.com" or amazon for the textbook!!)

*Biology 341 - Lecture Note Supplement / Problem Set*, by S. Garver

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You must buy 1 "Enrollment Form" ParSCORE (6" x 11", # F-288-ERI) for enrollment in this class, and to take your **first exam**. Also, you will need to buy **3 or 4 narrow ParSCORE forms** (# F-289-ERI) for all other exams. They are available at the bookstore. A #2 pencil must be used with the parscore form.

## **BLACKBOARD:**

Lecture notes, Study Problem questions, and additional course information will be available on Blackboard. (<https://blackboard.sdsu.edu/>)

## **COURSE OBJECTIVE:**

The Human Body (Bio. 341) is an upper division, **non-majors**, course designed to meet the G.E. Life Science requirement. Students should be in their junior or senior year to take this course. THIS COURSE SHOULD NOT BE TAKEN BY BIOLOGY MAJORS, OR THOSE STUDENTS REQUIRED BY THEIR MAJOR TO TAKE BIO 212 (HUMAN ANATOMY).

The class meets for 1 hour 15 minutes two times a week (9:30 am - 10:45 am on T/Th).

This course is designed to guide you through an introductory-level survey of the human body and human disease. The objectives include increasing your awareness of the structure of your body, the general function of your body, and basic clinical disease terminology and examples. Successful completion of this course will improve your understanding of the human experience in health and disease, and give you insight into current advancements in medical science. You will gain some of the intellectual tools to allow you to make enlightened and intelligent decisions about maintaining your own health or the health of your loved ones.

## **STUDENT LEARNING OUTCOME:**

Successful completion of this course will allow you to confidently identify the major organs of the eleven human body systems. It will also allow you to confidently identify the major functions of the eleven human body systems, and to confidently identify the major functions of limited body organs. You will also be able to identify a select group of major muscles, bones, and body regions. You will also be able to comfortably communicate using basic physiological, anatomical and clinical language. You will be able to apply the knowledge that you have gained over the semester toward specific clinical situations or common human diseases or disorders. The knowledge base that you gain from this course will ultimately allow you to have a greater understanding of current topics in medicine.

## COURSE REQUIREMENTS:

### LECTURES

Class meetings will be designed on the basis of a standard lecture format. You will be expected to take complete notes, although a basic format of notes is available in the class "**Lecture Note Supplement / Problem Set**" that you may purchase. Since exam questions will be selected from emphasized topics in the lecture, I urge you to attend all class meetings.

The *Problem Set* is a set of basic questions that could be asked about that day's lecture. Most *Problem Sets* will not have direct questions from the exam. They will, however, contain general questions to help you study for the exams. These Problem Sets are meant to enhance lectures, NOT replace lectures. **Make sure you stay for the *entire* lecture because last minute changes for studying for the exam are usually given at the end of the lecture!**

For optimal learning, it is best if you read and review assigned readings from the text prior to class meetings. As you do so, jot down any concepts you do not understand; questions are welcome during lectures as long as time permits and as long as they are relevant to the topic.

### EXAMS

There will be four (4) Unit Exams and one (1) Comprehensive Final. Each of the 5 exams (including the final) is a multiple-choice exam and they are weighted equally at 100 points each. **Your course grade will be based on your FOUR(4) BEST exam scores.** Thus, your lowest exam score will be dropped from your course total average. If you are satisfied with your grade after completion of the first four exams, you may elect **NOT** to take the final exam. School policy dictates that I must tell you to still attend class for the final (no attendance will be taken that day).

### FINAL EXAM

Be aware...the final IS COMPREHENSIVE and, as a result, it is more difficult. ***This is a warning:*** **Students should NOT write down all of the questions from past exams**, but instead highlight the area on the study sheet where the unit exam question was drawn. I will use the same "**type**" of question for the final (but not necessarily the same question). For example, if I asked 'what cavity houses the brain?', I may change it to 'what cavity houses the heart?'. If someone studies the general information about "cavities", they would be able to answer this question. The final exam questions will be evenly selected from each of the past unit exams. After I have all of the original questions moved to the final, I will go through each question to determine if, and how, I will change the question. A few questions will have NO change, some questions will have more significant changes, and most questions will have minor changes

***There Are No Makeup Exams - Please do not ask!***

***However...***

If you miss one exam, it will become the exam you drop (EVEN FOR ILLNESS). If you miss more than one exam, you will receive a ZERO for each additional exam missed. The exam schedule is flexible and may be changed at my discretion, however that is rare. Please note that it is **YOUR** responsibility to know the schedule, and to find out if, and when, exam dates have been changed from the schedule.

**>>>> If you arrive to an exam LATE, AFTER THE FIRST PERSON HAS FINISHED THE EXAM AND LEFT THE ROOM, you will NOT be allowed to take the exam. <<<<**

## **ATTENDANCE**

Past history of teaching this course has shown that students that miss lecture do much more poorly on the exams. To encourage attendance, I have set up some attendance points. You will start the semester with **15 attendance points**. You can only lose them by not showing up to lecture, or coming in more than 5 minutes late. Each unexcused absence results in the loss of 5 points, until all 15 points are gone. Arriving late to class or leaving class early is disruptive to me and to your peers. Two late arrivals will result in a loss of 5 points, until all points are gone. Attendance is taken randomly.

## **STATE BUDGET CUTS CAUSE FACULTY FURLOUGHS**

The devastating California state budget cuts prohibit faculty and staff at SDSU from working on two days per month during the 2009/10 academic year.

The faculty furlough prohibits faculty members from teaching, being on campus, doing research, and consulting with students on two days per month. Faculty furlough days vary from faculty to faculty. **My furlough days are the following: [Sep. 4, 8\*, Oct. 2, 16, Nov. 10\*, 25, Dec. 23, 24, 31]** On those days, classes and office hours are cancelled and telephone and e-mail messages will NOT be answered. You may, however, be assigned class work for that day! \* Class Days

The staff furlough causes most University, College, and Department Offices to close on the following days: Sept 11, 18; Oct 2, 16; Nov 13, 25; Dec 21, 22, 23, 24.

To avoid faculty and staff furloughs at SDSU in the future, you may want to contact your legislators in Sacramento so that they better understand how cutting the state budget for higher education affects your education and your future.

## **LAB EXPERIENCE**

***Your only bonus points opportunity!!***

### **YOU HAVE TWO OPTIONS – CHOOSE ONE!!**

① There will be a one-time **optional** “*Lab Experience*” opportunity that will be worth **25 bonus points**. This will allow each student to experience a lab setting for anatomy and physiology. It will include microscope use, lung machine demonstration, dissected brains, etc., as well as an OPTIONAL cadaver “tour”. The date of the “*Lab Experience*” will be listed in the “Human Body Class Schedule” received on the first day of class. Various times are offered...**PLAN AHEAD!**

➤➤ OR <<

② **WARNING** – This costs \$\$\$. You may choose to attend the “BodyWorlds” museum experience at the San Diego Natural History Museum. This is also worth **25 bonus points**. If you choose to go to the exhibit, you will have a “Body Worlds Worksheet” to fill out, and your ticket stub, for proof of attendance (see Blackboard for more information).

**This limited engagement ends on OCT 4<sup>th</sup>!!**

For more information, or to order tickets online, go to Blackboard or: [www.sdnhm.org](http://www.sdnhm.org)

## GRADING:

All Grades are posted on BLACKBOARD\* (<https://blackboard.sdsu.edu/>). Your final grade will be based on the points of your four (4) highest exam scores, 15 attendance points, AND 25 bonus points from the "Lab Experience". **A total of 415 points are possible.** The final grade scale is as follows:

(415+pts -350.5pts)	100.00% - 84.45%	= A
(350.4pts - 342.2pts)	84.44% - 82.45%	= B+
(342.1pts -309.0pts)	82.44% - 74.45%	= B
(308.9pts - 300.7pts)	74.44% - 72.45%	= C+
(300.6 pts - 267.5pts)	72.44% - 64.45%	= C
(267.4pts - 259.2pts)	64.44% - 62.45%	= D+
(259.1pts - 226.0pts)	62.44% - 54.45%	= D
(225.9pts - 0pts)	54.44% and below	is an F.

*\*Please note that blackboard DOES NOT automatically drop your lowest exam score. It will only list all the points that you have earned during the semester. I will drop your lowest exam before grades are given at the end of the semester.*

## CHEATING

Cheating includes (but is not limited to):

- **Receiving** any specific information about a specific exam or quiz prior to you taking it.  
*Don't discuss the exam or quiz with students who have already taken it.*
- **Using** any unauthorized information during an exam. *Don't look at a neighbor's exam or quiz, don't write on yourself or any part of your clothing, don't use cheat-sheets.* Unauthorized information includes the use of CELL PHONES, PAGERS, or PDAs. These devices are not allowed during an exam.
- **Not returning the entire "Exam Packet"** at the end of the exam. *You are not allowed to leave the room after an exam with ANY PART of the exam packet!!*

**\* CHEATING WILL NOT BE TOLERATED. \***

If you are caught cheating, or I even suspect it, I will report you to the Academic Judiciary Committee. The penalty will be stiff. In the past, this has meant an "F" in the course.

**BIOLOGY 341 – THE HUMAN BODY**  
**COURSE CALENDAR FALL 2009**  
T/Th 9:30 - 10:45 in LS-248

<b><u>DATE</u></b>	<b><u>DAY</u></b>	<b><u>TOPICS</u></b>	<b><u>CHAPTER</u></b>
<b>UNIT I</b>			
9/1	Tues	Human Body: An Orientation/ Terms for Disease	1
9/3	Thurs	Basic Chemistry	2
9/8	Tues	Cells ( <b><u>FURLOUGH DAY – no class</u></b> )	3 (pp 64-83)
9/10	Thurs	Tissues	3 (pp 88-108)
9/15	Tues	Cancer	Supp / Lec
9/17	Thurs	Integumentary System	4
9/22	Tues	◆ EXAM #1 ◆	◆
<b>UNIT II</b>			
9/24	Thurs	Skeletal System	5
9/29	Tues	Skeletal & Muscular System	5, 6
10/1	Thurs	Muscular System,	6 (pp 182-198; 206-226)
10/6	Tues	Nervous System	7 (pp 227-242)
10/8	Thurs	Nervous System	7 (pp 242-279)
10/13	Tues	Intro to Special Senses	8
10/15	Thurs	◆ EXAM #2 ◆	◆
<b>UNIT III</b>			
10/20	Tues	Endocrine System	9
10/22	Thurs	The Blood	10
10/27	Tues	Cardiovascular System I - Heart	11 (pp 360-374)
10/29	Thurs	Cardiovascular System II - Vessels	11 (pp 374-401)
11/3	Tues	Vessels & Lymphatic System	11, 12 (pp 402-415)
11/5	Thurs	AIDS / STDs ( <i>Guest Speaker</i> )	Lec (pp 431-435)
11/10	Tues	Lymph System ( <b><u>FURLOUGH DAY – no class</u></b> )	12 (pp 409-439)
11/12	Thurs	◆ EXAM #3 ◆	◆
<b>UNIT IV</b>			
11/17	Tues	Respiratory System	13
11/19	Thurs	No Class ( <i>see Friday Lab Schedule</i> )	
11/20	*Friday	<b>Human Body Lab</b> (9:00 or 10:00 am)	<b>Life Science North 223</b>
11/24	Tues	Digestive System	14 (pp 468-493)
11/26	Thurs	No Class ( <i>Thanksgiving Holiday</i> )	
12/1	Tues	Urinary System	15
12/3	Thurs	Reproductive System (male)	16 (pp 544-553)
12/8	Tues	Reproductive System (female)	16 (pp 553-582)
12/10	Thurs	◆ EXAM #4 ◆	◆
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12/17	Tues	<b>FINAL EXAM (cumulative) : 10:30 am - 12:30 pm in LS-248</b>	
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