

BIOL 345-001  
HUMAN ANATOMY & PHYSIOLOGY II  
Spring 2011

Your Instructor:

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Office Hours: MWF after lecture, Mon 1:00-3:00; Fri 12:00-2:00; or by appointment.

Your Text:

*Human Anatomy & Physiology* by Marieb, eighth edition. If you have a copy of an earlier edition, that should be satisfactory. The majority of the material covered in the lecture section will be drawn directly from this text. Supplemental materials that some may find useful, but which are not required to successfully complete the course, can be purchased or ordered from the bookstore. These include several different study guides, A&P coloring books, and atlases. Also, the bookstore has stocked several copies of *A Visual Analogy Guide to Human Anatomy & Physiology*, which may be helpful. However, the surest way to pass this course is to **read the textbook** and **keep up with the material covered in the lectures**.

Because the human body has not changed a whole lot in the last few thousand years, most A&P texts will contain much of the same basic material. If you have a recent addition of a human A&P text, or separate anatomy and physiology texts, you may not feel obliged to purchase the Marieb text. This is your choice, but I will be referencing the Marieb book for this course.

Your textbook package should include some software. The Interactive Physiology-10 software is a fantastic study tool and is the primary reason I have adopted this textbook. You should use this software as much as possible. The PhysioEx CD-ROM will be used only in the laboratory course, as will the laboratory manual.

Lecture notes and slides will be made available on the D2L system.

Your Grade/Outcomes Assessment:

Your grade in this course will be based on your ability to synthesize and recall information while taking a written examination. Much of this information will deal with the basic concepts of A&P, which involve the *inter-working relationships* between the anatomy (structure) and physiology (function) of the human body at the molecular, microscopic, and gross levels. Straight memorization will be of little use on physiology exams. Written examinations may (and usually will) consist of almost any question format, the majority of which will involve the use of a Scantron answer sheet. In other words, bring #2 pencils to every exam. With nearly 100 students in this class, essay exams are just not practical.

There will be four major exams given over the course of the semester. Each exam will be worth 18% of your final grade for a total of 72%. The final exam may be partially cumulative and will count as 18% of your final grade. While even a partially cumulative final may seem a difficult task based on the enormity of the material covered, most of you will find that by the end of the semester you have learned far more than you expected.

I will also be assigning online homework via Mastering A&P. Your average percentage score on these assignments will account for 10% of your grade.

The outcome assessment of this course (i.e., your grade) can be summarized as:

Four major exams	@18% each	--->	72%
Final exam			18%
Mastering A&P			<u>10%</u>
			100%

In addition, you may have the opportunity to earn bonus points toward your final grade via the iClicker system.

Final letter grades will be assigned as follows:

A = 90-100	C = 70-79	F ≤ 59
B = 80-89	D = 60-69	

I reserve the right to assign “minus grades” for so-called “borderline” grades. For example, a grade of 79 may be assigned as a B- instead of a C based on my assessment of your overall contributions to the class, which may include such things as attendance, participation, or whether or not this course serves as your morning naptime.

I will make every effort to accommodate students with a disability documented through DSS.

#### Learning Objectives:

Your major learning objectives for this course are listed as follows:

1. Acquire a working knowledge of sensory physiology and be prepared to apply that knowledge to the understanding of the regulation of specific body systems.
2. Master the basic functions of the major hormones of the endocrine system and understand their roles in controlling the various systems of the body. You will be forced to apply this knowledge on essentially a daily or weekly basis throughout the semester.
3. Utilize your mastery of the autonomic nervous system to understand the mechanisms by which it controls the functions of the various body systems.
4. Gain a strong working knowledge of the structure and function of the various organ systems of the body.
5. Understand the various controls exerted on each organ system, both intrinsic and extrinsic, and how those controls can be manipulated for the purposes of regulation.
6. Utilize your knowledge of the normal physiological function of each organ or organ system to solve clinical problems involving abnormal function.
7. Gain a thorough understanding of the interconnecting roles played by the organ systems of the body, their potentially complementary/antagonistic relationships, and the potential consequences throughout the body of simply modifying one physiological variable.

#### Classroom Expectations and Etiquette:

While I would hope that this information would be self-evident to most of you, I have learned over the past few years that some individuals need to be made aware of certain behaviors that are not acceptable in a university classroom.

1. All cell phones are to be turned off or set to vibrate before I begin to lecture. If a cell phone rings, I will cease the lecture and wait for you to turn off your phone or exit the room. DO NOT answer your phone and carry on conversation during class. Cell phones must be turned off and put away for the duration of all exam periods. Also, texting is just as rude as talking on the phone during class.
2. Laptop computers brought to class may be used for note-taking purposes only. If you want to do your homework for other classes or surf the web, go somewhere else. If this becomes a problem, I will simply ban all laptops for the remainder of the course.
3. If you know ahead of time that you must leave class early, sit near the exit so as not to be a major distraction when you leave.

4. If you come to class late, make an effort to enter through the rear door and find a seat in the back of the room as soon as possible so as to minimize the distraction you are going to cause your fellow classmates.

5. On days when major exams are given, backpacks, briefcases, etc., WILL NOT be allowed in the seating area. In addition, I reserve the right to require that all baseball caps be removed or worn in reverse. A ringing (or vibrating) cell phone inside a backpack is a major annoyance for anyone trying to concentrate on an exam. Unless you want me to dig around in your backpack for your phone and answer it myself, make sure it is turned off.

#### Academic Misconduct:

If you are not certain as to what constitutes cheating at this university, it is outlined in your student handbook, Part IX, Section B, subsection 1.

If I have reason to believe cheating has occurred on an assignment, all students involved will receive a grade of “zero” for that assignment. If that assignment is a major exam, the mathematical result for most of you will be a final grade of “D” or below for the course. Since most students in this course are pursuing a career in health care, I also expect you to police yourselves with regards to cheating. Do you really want to work your way through professional school with a student you know to be cheating? Would you want that person taking care of you or your family members? Be aware that in this course most of your classmates will not hesitate in reporting such problems to me.

#### Class Schedule

<u>Week</u>	<u>Topic(s)</u>	<u>Chapter (Marieb)</u>	<u>Noteworthy Events</u>
1	Special Senses	15	Back to work
2	Special Senses	15	MLK Day
3	Endocrine System	16	
4	Blood	17	Exam I (Ch. 15-16) 2/02
5	Cardiac Physiology	18	
6	Cardiac Physiology Circulatory System	18 19	
7	Circulatory System		Presidents' Day Exam II (Ch. 17-18) 2/23
8	Spring Break		Rest up (you'll need it)
9	Circulatory/Respiratory	19, 22	
10	Respiratory Physiology Renal System	22 25	
11	Renal System	25, 26	Exam III (Ch. 19 & 22) 3/21
12	Digestive System	23	

13	Digestive System Reproductive Physiology	23, 24 27	
14	Reproductive Physiology	27	Exam IV (Ch. 23-26) 4/11
15	Reproductive Physiology	28	Mini Break
16	Final Exams Week		Final Exam 4/25; 12:00 pm

The material for chapters 27-28 will be included only on the *comprehensive* Final Exam.  
Exams may be rescheduled by the instructor as needed.