

## Lecture Syllabus for Biology 215: Basic Human Anatomy Fall 2007

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**Office Hours:** Tuesday/Thursday, 1:00-2:30 pm

### Text and associated materials:

Saladin, K.S. 2008. Human Anatomy, 2<sup>nd</sup> ed. McGraw-Hill, New York.

Grine, F.E. 2008. Regional Human Anatomy, 3<sup>rd</sup> ed. McGraw-Hill, New York.

**Course description and objectives:** "Basic Human Anatomy" is designed to develop and help further your professional understanding of the human body. A significant part of the course, particularly the lab, will involve the development of a 'vocabulary of anatomy' so that you will become conversant in the language used by research and health professionals. However, lists of anatomical terms are easily forgotten if they are not applied to larger concepts. Thus, in this course we will encourage you to see the 'big picture' by analyzing the relationship between structure and function, the developmental organization of the body, and exploring selected examples of clinical applications of anatomy.

Both lecture and lab are designed with these goals in mind. As a departure from the way most undergraduate anatomy courses are taught, we will take a 'regional approach' in lab. This approach, commonly used in graduate level courses, investigates the anatomy of areas of the body rather than looking at one system at a time. This allows you to visualize the relationship of bones, muscles, and nerves to see how they work together as a functional unit. Meanwhile, in lecture we will follow the systems approach. Thus, lab and lecture will not always directly correspond with one another week to week, but the benefit is that this combined approach will allow reiteration of structures and concepts in a way that encourages you to develop your own connections as you learn anatomy.

**Grades:** Dates for the exams are given in the schedule below for lecture (consult the lab syllabus for lab practical dates and policy). Your knowledge of human anatomy will be assessed via **four lecture exams** each worth 100 pts. Lecture exams will be 50 min. in length and have a multiple-choice format. A total of 370 pts. can be earned in lab. Notice that the distribution of points between lab and lecture is different from many biology courses in that roughly equal weight (50/50 distribution of points) is given to each. This design reflects the fact that you will be in the lab 4hrs./week instead of the usual 2 or 3.

### Grading Scale

Grade	Percent	Total Points (lab and lecture)
A	≥90	≥693
B	80 – 89	616 - 692
C	70 – 79	539 - 615
D	60 – 69	462 – 538
F	≤59	≤461

**Exam policy:** As in lab, lecture exam dates are inflexible. There are exceptions to this policy, however, that may apply to you at some point during the semester. First, university sponsored events (athletics, etc.) occasionally conflict with the date of an exam. If you are involved in such an event, you need to notify me at least **one week** prior to the exam date so that we can make an alternative arrangement.

Second, unpredicted situations may arise such as illness, family crises, and emergencies. Subject to my approval, you will be able to make up **one** exam during the semester due to such an event. If you must miss

an exam for one of these reasons you need to contact me **before** the time of the exam. Written documentation of the event is required. Missed exams must be taken within 48 hours of the scheduled time and may be given in **essay** format.

Academic dishonesty will not be tolerated. Definitions and consequences of academic dishonesty at IPFW are found in the student code (<http://www.ipfw.edu/academics/code/>).

**Attendance:** Lecture attendance is strongly encouraged and it is clearly to your advantage to attend lecture on regular basis. Lecture content will be the main source of material for exams. Also, we will undoubtedly deviate from the schedule provided below so, being in lecture will help you follow what exactly we are working on. Because it is disruptive to others in the class, please do not arrive late. If you must, enter from the back of the lecture hall.

**Online Resources and Communication:** The course is supported by a series of online tools available through WebCT (<http://webct.ipfw.edu>). After entering your IPFW login and password, from WebCT you will be able to access PowerPoint presentations used in lecture, lecture outlines, exam reviews, and copies of the syllabus. We will also use it as a means for class communication to facilitate interaction (with me and your classmates). Keep up to date and check the site regularly!

A second way that we will communicate involves feedback on lecture content. We will do this by having you take a couple minutes at the end of each lecture to write a question on a slip of paper called the '**minute paper**'. I will look through the questions following lecture and give responses to the one or two that I consider important for understanding lecture content or are most frequently asked. 'Minute papers' are an informal way for me to get an idea of the things that you might find unclear or difficult. Additionally, answers to these questions provide an excellent way for you to review lecture topics in preparation for exams. They are not graded. Keep in mind however, that a couple minutes of effort on your part during each class will make a large difference in your ability to prepare for exams.

**Study:** Largely because of the intricacy of anatomical structure and its extensive and unfamiliar nomenclature, human anatomy is a demanding and sometimes complex topic to study. To do well in the course it is essential that you keep up with the material as we proceed. As such, I strongly recommend that you read the assigned pages in the text before lecture. Although I will keep the main focus of exams on material presented in lecture, details found in the reading may show up on an exam. I also strongly suggest that you make use of the study aides associated with the text [study questions within the reading ("Before You Go On"/"Think About It"), chapter reviews at the end of each chapter, and the text's website (<http://highered.mcgraw-hill.com/classware/infoCenter.do?isbn=0072943688>). Use of these materials will help you actively evaluate your understanding of material as you read and come to lecture.

Prior to a lecture exam I will give you a study guide with questions presented in an essay format. The study guides are intended to show you the topics that I consider important for review and encourage you to think about material in a synthetic manner. These topics *may or may not* appear on the actual exam. A brief review will be held during the class period just before the exam to give you an idea of question format and content. Last but not least .... do not hesitate to ask me for help when you are having difficulty!

## Tentative schedule

<b>Date</b>	<b>Lecture Topic</b>	<b>Chapter in Saladin</b>
August 21	Introduction to Human Anatomy	Chapter 1
August 23	Cells I – Cell Surface	Chapter 2
August 28	Cells II – Cytoplasm and Nucleus	Chapter 2
August 30	Tissues I – Epithelium, Glands and Membranes	Chapter 3
September 4	Tissues II – Connective, Muscle and Nervous Tissues	Chapter 3
September 6	Integument I –Skin	Chapter 5
September 11	Integument II – Accessory structures and glands	Chapter 5
September 13	Catch up and Review	
September 18	<b>Exam 1</b>	
September 20	Bone Tissue	Chapter 6
September 25	Bone Growth	Chapter 6
September 27	Joints	Chapter 9
October 2	Muscular System	Chapter 10
October 4	Muscular System	Chapter 10
October 9	<b>Fall break – no class</b>	
October 11	Nervous tissue	Chapter 13
October 16	Spinal cord and nerves	Chapter 14
October 18	Catch up and Review	
October 23	<b>Exam 2</b>	
October 25	Somatic Reflexes and Brain	Chapter 14, 15
October 30	Brain	Chapter 15
November 1	Cranial Nerves and Brain Development	Chapter 15
November 6	Autonomic Nervous System	Chapter 16
November 8	Sense organs: General Senses and Ear	Chapter 17
November 13	Catch up and Review	
November 15	<b>Exam 3</b>	
November 20	Circulatory System – Blood	Chapter 19
November 22	<b>Thanksgiving – no class</b>	
November 27	Circulation: Blood vessels	Chapter 20
November 29	Circulation: Heart	Chapter 21
December 4	Digestive System	Chapter 24
December 6	Digestive System	Chapter 24
December 11, 10:30am – 12:30pm	<b>FINAL - Exam 4</b>	