

## Syllabus

### SECTIONS:

901 & 903 - MW 6:30 to 7:45, RecCent 3220

### INSTRUCTOR: Robert E. Bast, Ph.D.

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Office Hours: Mon. & Wed. after class, or by appointment.

### REQUIRED BOOKS:

1. Seeley's Anatomy & Physiology, by Seeley, VanPutte, Regan, & Russo. McGraw Hill, 2011 (ninth edition).
2. Human Anatomy and Physiology Laboratory Manual, by Marieb. Pearson/Benjamin Cummings, 2011 (ninth edition)
3. Optional CDs: MediaPhys 3.0 (McGraw Hill) provides animations and explanations of much of the physiology. Anatomy & Physiology Revealed provides photos, pictures and animations of anatomy (including cadaver pictures), histology, and some physiology. (A copy of each of these CD's will be in 6201 French-West so anyone who wants to give it a quick review before deciding on purchase can do so during open lab time.)

### COURSE DESCRIPTION:

Anatomy and Physiology 203 is the third course in a three-quarter sequence designed to provide in-depth examination of the structures and functioning of the human body. In the spring quarter we will cover the cardiovascular, lymphatic, immune, respiratory, digestive, and urinary systems. Your textbook will provide excellent reinforcement of the material being covered in lecture. The course has a required laboratory, which meets two hours per week, and is described in a separate syllabus.

### COURSE OBJECTIVES:

1. Understand the structure and functions of the heart, blood vessels, and blood.
2. Understand the relationship of the lymphatic and cardiovascular systems to the immune system.
3. Describe the operation of the non-specific and specific immune responses.
4. Be able to identify and describe the structures of the respiratory system, and describe the processes of breathing and gas exchange.
5. Be able to identify and describe the structures of the digestive system, and explain chemical digestion, absorption, metabolism, and good nutrition.
6. Understand the process of urine formation, and the detailed structures of the responsible parts of the kidney.
7. Understand the importance of maintaining homeostasis within the human body of things such as fluids, electrolytes, body temperature, blood pressure.
8. Understand how the nervous and endocrine systems relate to and how they exert control over the systems we are covering this quarter.
9. Be able to apply your basic knowledge of the anatomy & physiology of body systems to clinical situations.

### COURSE WEBSITE: <http://blackboard.uc.edu>.

Both lab sections are combined into one meta-course named **(Meta 11S) ANAT & PHYS III (901-903)**. Material related to the lecture, lecture exam results, and information relevant to **all** lab sections will be posted to the meta-course. The Blackboard listing for your individual lab section will contain information that is specific to your lab section. This information usually will be posted by your lab instructor. You must check both Websites regularly and often for announcements and important information. Also, make sure that the e-

mail address listed with your Blackboard account under personal information is accurate and is an e-mail account you check regularly.

PRS KEYPAD:

To participate in in-class questions students will need to purchase and register during the first week of class a TurningPoint RF Personal Response System (PRS) Keypad, available from the UC bookstore or on line from TurningTechnologies, maker of TurningPoint software and hardware. They have established a site for the University of Cincinnati students to purchase transmitters directly. The site sells transmitters at cost plus a nominal shipping charge - providing a small savings. To visit the site, follow this link - <http://store.turningtechnologies.com/>. The code for the University of Cincinnati is - Jg@8. Either Response Card (with or without the LCD display) will work. Once purchased, your PRS keypad must be registered; 1) login to the **meta course** Website [(Meta 11S) ANAT & PHYS II (001-007)], NOT the Bb site for individual labs, 2) along the left side of the screen click "Tools & Communication", 3) scroll to the "PRS Registration" bottom and click, 4) follow the directions, 5) click the "submit" button.

ATTENDING LECTURES:

The course text is encyclopedic, but lecture will provide the best guide for what specific material you will be responsible for learning. Taking complete notes in lecture is an important learning aspect of this course. The exams are based on what is presented in class. I will not post my lecture notes online, though I will post the figures that I use during lecture. To understand the lectures and take appropriate notes, it will be very helpful for you to know what material is in the text before you attend the lecture on that topic. I strongly recommend that you at least look at the headings and figures in the text before each lecture. After lecture, you should use the text to fill in your notes to obtain explanations of the material by another teacher (the authors), and to review figures and diagrams. Your goal should be to understand the lecture sufficiently so that you could present it to someone (using your notes). Some students need to read whole sections to get the context; other students can extract information by reading selected paragraphs and/or studying the figures, diagrams, and charts. If you do not understand the material soon after a lecture, it is unlikely that you will understand it a few weeks later. Please come and see me during office hours to clarify the material. Do not wait until just before an exam.

GRADING POLICY:

One grade will be given for Anatomy and Physiology II lecture and laboratory. It is based on a total of 600 points; 200 points from the lab (3 lab practical exams, 6 quizzes, and attendance; see lab syllabus for details), and 400 points from the lecture (2 in-class exams = 105 pts each, a 160 point comprehensive final exam, and 30 points for PRS questions). A letter grade for the course will be assigned based on the following scale:

Grade	Min. Pts	% Range	Grade	Min. Pts.	% Range
A	564	100-94	C+	462	79.9-77
A-	540	93.9-90	C	420	76.9-70
B+	522	89.9-87	D+	402	69.9-67
B	498	86.9-83	D	360	66.9-60
B-	480	82.9-80	F	<360	<60

I reserve the right to **reduce** the number of points required for a given letter grade.

MAKE-UP EXAM POLICY:

If you miss **one** lecture exam for a documented reason that was truly out of your control, contact me by e-

mail as soon as possible, but no later than the noon of the day following the exam, to arrange a make up exam to be taken without delay. Any additional missed exams will result in a grade of zero for that exam and any other missed exams. If you miss both in-class exams you will not pass the course.

CHEATING:

Any academic dishonesty during an exam or quiz will be grounds for a grade of 0 for that activity. Read the Student Code of Conduct for a discussion of what constitutes cheating and academic dishonesty.

EMERGENCY CANCELLATION OF A CLASS:

Class will be canceled only if the University is officially closed. Check UC's home page to determine the status of the University. If for a **personal reason** I must cancel class I will notify you by e-mail as soon as possible and as soon as I have access to the Internet. I will try to arrange for a departmental secretary to post a notice of cancellation in the classroom.

We will NOT discuss in lecture all material presented in each chapter. As an example, we will not discuss the anatomy of systems that has been learned in lab. Use the PowerPoint presentations and your lecture notes to determine what material in each chapter you will must know.

Tentative Lecture Schedule		
Week	Dates	Topic and Reading
1	Mar 28 - 30	Ch. 19: Cardiovascular system - Blood: plasma, cells, formation, clotting, typing
2	Apr 4 - 6	Ch. 20: Cardiovascular system - Heart: anatomy, contraction, regulation of cardiac output, etc.
3	Apr 11 - 13	Ch. 21: Cardiovascular system - Blood Vessels (Peripheral Circulation and Regulation): pressure, blood flow, major vessels
4	Apr 18 20	<b>Monday 4/19 Exam 1</b> Ch. 22: Lymphatic system & Immunity
5	Apr 25 - 27	cont.
6	May 2 - 4	Ch. 23: Respiratory system - anatomy, breathing mechanisms, gas exchange
7	May 9 11	cont. <b>Wednesday 9<sup>th</sup> - Exam #2</b>
8	May 16 - 18	Ch. 24: Digestive System - hormones, enteric NS, regulation
9	May 23 - 25	Ch. 26: Urinary system
10	May 30 Jun 1	<b>Monday May 30 - Memorial Day, No Class</b> Ch 27: Water & electrolyte balance
<b>Mon.</b>	Jun 6	<b>Final Exam: 6:30 to 8:30</b>

I strongly advise you to look over the lecture PowerPoint presentation, lecture notes (if any), and reading **before** the lecture to become familiar with the concepts, terms, and examples. **After** lecture, study specific topics in more detail as needed, and revise and/or annotate your notes.