

Anatomy & Physiology III

15-BIOL-203

Lecture Syllabus

Spring 2006

TH 11:00-12:15

525 Old Chem

Class Dates	Major Topics	Textbook* Readings:
3/28,30	Cardiovascular system - Blood: plasma, cells, formation, clotting, typing	Ch. 17
4/4,6,11,13	Cardiovascular system - Heart: anatomy, contraction, regulation of cardiac output, etc.	Ch. 18 [AIP - Cardiovascular]
4/18	Test #1	
4/20,25	Cardiovascular system - Blood Vessels: pressure, blood flow, major vessels	Ch. 19 [AIP - Cardiovascular]
4/27	Critical Thinking Quiz#1 – Cardiovascular Compensation	
4/27	Lymphatic vessels, nodes, organs	Ch. 20
5/2,4,9	Nonspecific immunity Specific immunity - antibody mediated, cell mediated, deficiencies	Ch. 21
5/11	Test #2	
5/16,18	Respiratory system - anatomy, breathing mechanisms, gas exchange	Ch. 22 [AIP - Respiratory]
5/23,25	Digestive system - anatomy, organ functions, chemical digestion absorption of nutrients and water Digestive system - nutrition, metabolism (READ ONLY)	Ch. 23 Ch. 24: p. 942-54 (read entire chapter FYI)
5/25	Critical Thinking Quiz – Ch. 22/25	
5/30,6/1	Urinary system - anatomy, urine formation and composition; Fluid and electrolyte balance	Ch. 25 Ch. 26 [AIP – Urinary & Fluid, Electrolyte & pH]

Final Exam (Test #3) : Tues., June 6, 9:45-11:45am

This course fulfills the General Education Breadth of Knowledge (BoK) area of *Natural Science*. It promotes the development of the Baccalaureate Competencies: *Critical Thinking*, and *Knowledge Integration*.

This course is intended primarily for the pre-professional allied health science students, including nursing/pre-nursing, pre-physical therapy and PTA, community health education, health sciences, dietetics/nutrition, medical technology, AMI, CLS, athletic trainers, biomedical engineering, and others who have an interest in the material. This course may also be used to satisfy part of the College of Arts and Sciences and the General Education “natural science” requirements. **NOTE:** BIOLOGY MAJORS do not receive credit towards their major requirements for this course, but they may take the course as a free elective.

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.

Texts: * Human Anatomy & Physiology, 6th ed., Elaine Marieb, R.N., Ph.D.,
Included with text is (A.D.A.M.) Interactive Physiology CD [AIP]
A.D.A.M. Interactive Anatomy CD-ROM and Student Lab Guide [AIA] (primarily for lab, but contains information on anatomy of all systems covered this quarter.)

Instructor: Mary Fox **Office:** 603 Rieveschl Hall (Departmental office is 614 Rvschl)

Phone: 556-1669 **Email Address:** foxmc@ucmail.uc.edu or Mary.fox@uc.edu

Office Hours: Tues. 8:30-10:30; Weds. 10:00-12:00; Thurs. 12:30-1:30; other hours by appointment.

Course Web Site: <http://blackboard.uc.edu> This site will give students access to lecture notes, handouts, study guides, answer keys, etc. Important announcements will be regularly posted, including information on quizzes. CHECK THIS SITE REGULARLY!! NOTE: There are two Blackboard sites for this course! 1) The Meta site for A&P II (11:00 lecture) contains lecture-related material and information relevant to all lab sections linked to the TH 11-12:15 lecture. Your lecture grades will be posted on this site. 2) Your individual section Blackboard site contains lab information that is specific to your lab section, and will usually be posted by your lab instructor. Your lab grades will be posted on this site. Also, ***please check to be sure that the email address you have listed with your Blackboard account is accurate.*** Your instructors will often send out emails to individual students or entire lab sections through the Blackboard site, and *you will miss important information if your email address is incorrect.*

Tests: There will be two tests and a final exam. The final exam will primarily cover material from weeks 8 through 10 of the course, but may also include some comprehensive questions. See course syllabus for tentative dates. **No makeup tests** will be given except under extraordinary circumstances and even then only with **prior arrangement** with the instructor. You must contact Prof. Fox by email or voice mail **by the day of the test** if you want to be considered for a makeup test. Even then, you must have what is judged to be a legitimate excuse for missing the test (you will be asked to provide documentation), and you must make up the test at the instructor's convenience and within a short period of time. Only one test may be made up -- any other missed tests result in a grade of Zero for that test.

At the time of the lecture examinations, you will be required to present a **picture identification** card such as your UC ID card. If you do not have one, get one before the first exam! A driver's license will be acceptable if it has your picture on it. Throughout the exam it should be placed in front of you. *The only things you will be allowed to have on your desk during an exam are #2 pencils and erasers, your ID, and the exam.*

Quizzes: Because of the volume and complexity of material covered this quarter, and to encourage you to keep up with the textbook reading and studying on a daily basis, there will be a very **short quiz during most classes** (except test days). This quiz will cover important terms or concepts from the previous class, and will be worth approximately 5-7 points. Sometimes you will be told specific material to study for a quiz (and that will also be posted on Blackboard), but on other days you will be expected to just review your notes from the previous class and read the relevant textbook material. *Missed quizzes cannot be made up*, but there will be some extra points available from quizzes so one or two missed quizzes will not be a problem. Students who are able to take all quizzes and receive maximum points will be able to earn extra points. To facilitate these quizzes, students will be asked to purchase a Personal Response System Keypad from the UC Bookstore's Textbook Information Desk. These keypads cost \$37.00 new or \$28.00 used, and can be sold back to the bookstore at the end of the year for \$20.00. Most of you already have these keypads from last quarter. ***Everyone needs to register their keypad for use again this quarter.*** Please follow the instructions that will be posted on the course Blackboard Meta site for activating the unit for this class. We will start using the PRS keypad for quizzes in the second class, so please register your keypads early! Please Remember: *The class policies on academic honesty described below will also apply to the use of the PRS for quizzes!*

Critical Thinking Quizzes: There will also be periodic in-class quizzes based on the Critical Thinking / Clinical Applications Questions found at the end of each textbook chapter or prepared by your instructor. These questions will help you to better understand how the basic anatomy & physiology we are covering this quarter applies to real clinical situations. For the selected chapters listed on the syllabus, you should prepare and study answers to the selected Critical Thinking / Clinical Applications questions (see Blackboard announcements for details), and be prepared to write out the answers (without notes!) to one of the questions which you will be randomly assigned in class on the date listed on the syllabus. You may discuss your answers with your classmates, Prof. Fox, or your TA, but you should research and prepare answers for each question ON YOUR OWN. Each Critical Thinking quiz will be worth 10 points. The same makeup policy will apply to Critical Thinking quizzes as applies to regular lecture tests. In general, PRS quizzes will not be given on days when Critical Thinking quizzes are given.

Grades:	Test 1	= 100 points
	Test 2	= 100 points
	Test 3 (Final Exam)	= 100 points
	Quizzes (Quiz points may vary)	= ~ 100 points
	TOTAL	= ~ 400 points

*****Cheating on ANY quiz, test, or assignment = F*****

Please read the Student Code of Conduct (<http://www.uc.edu/studentlife/conduct/>) for a discussion of what constitutes cheating and academic dishonesty. Any academic dishonesty will be dealt with according to the provisions outlined in the student Code of Conduct. This may result in receiving an “F” for the exam/quiz, an “F” for the course or even dismissal from the university. **Any indications of academic dishonesty will be dealt with immediately. This includes, but**

is not limited to, copying the work of others on assignments, quizzes, tests, lab practicals, etc. This also includes collaborating on assignments when you are not supposed to, or having notes or other aids in your possession or within eyesight during a quiz/test. The Student Code of Conduct states that possession of these kinds of aids, even if you don't use them, is a violation of academic honesty policies. Serious infractions will result in a grade of F for the course. THERE WILL BE ZERO TOLERANCE FOR ACADEMIC DISHONESTY!!! It is not fair to the honest students in the class for others to get better grades by cheating. Students are asked to help by reporting to your instructor (or TA) any cheating or academic dishonesty that you observe or become aware of. Your assistance in maintaining the academic integrity of our classroom will be greatly appreciated.

**** Your final grade for the whole course, Anatomy and Physiology III, will be based on ~400 points from A&P lecture, and 220 points from A&P lab, for a total of ~620 points.** This final grade scale will be used to determine your final course grade (point totals may be adjusted if quiz points do not total 100 points):

A = 552 + (89% and above)	D = 366-427 (59-68.9%)
B = 490-551 (79-88.9%)	F = below 365 (58.9% and below)
C = 428-489 (69-78.9%)	

****Cell phones and earphones must be put away during all tests/quizzes.**

No text messaging or phone calls at any time during class, please! If your phone rings during lecture, you will be embarrassed as I stop and we all look at you. Please exercise common courtesy and our classroom will be a pleasant place to spend several hours each week!

**** Your consideration of others is expected to reflect mutual respect and a common goal of a satisfying educational experience. Please refrain from talking to others in class while someone else (including the instructor) is speaking!!** This is a very large class in a very large classroom, and it will be easy to interfere with the ability of your fellow students to listen to lecture if conversations are going on in the classroom. Several incidents have been reported in the past where students who were talking in class and were asked very politely to please be quiet by a fellow student were very rude. This is totally unacceptable!!! **Anyone who interferes with the ability of a classmate to hear lecture or the instructor to hear a question will be asked to leave the classroom.** You are also expected to show courtesy for your instructor and fellow students by coming to class on time, and not leaving while class is in session.

****Please pay attention to published deadlines to officially drop this class if your circumstances change and you cannot continue.** If you do not officially withdraw from class and you stop coming, you will be given a grade of UW, which counts the same as an F in your GPA. If you are having academic difficulty, and decide to withdraw from the course, make sure you do so by the published deadline. This withdrawal can be done on-line, through the One-Stop Web site, without your professor's signature (but the published deadline for withdrawal **does** apply.)

****For your safety:** UC NightWalk is a student organization which provides any UC student, faculty, or staff member transportation to any location within three blocks of campus after dark. Call 556-6110.

Attendance: Class attendance is strongly encouraged and recommended. Since tests will be based primarily on class lecture material, it is very important that you attend and participate. There is much more discussed in class than what is included in the notes posted on Blackboard – come to class so you’re sure you don’t miss anything! There will often be random quiz questions asked during the midst of class – if you have left class and miss those quiz questions, you will not be able to recover those points!

My A&P Web Site: <http://www.mariebmap.com>: Access code (Course ID): fox58011 Course Name: A&P 201-202-203 Your textbook author/publisher has provided a Web site which is meant to supplement the material in the text and assist your study of Anatomy & Physiology. A description of this Web site is in the front of your textbook. It includes chapter-specific reviews, quizzes and review activities, clinical case studies, interactive study screens, and art exercises. You are strongly encouraged to make regular use of this study tool throughout the quarter. The volume of material you must learn is tremendous, so *do not wait until test time to use this software*

A.D.A.M. Software: The **A.D.A.M. Interactive Physiology [AIP]** software contains in-depth information on various human body systems. You will have access to this software through a CD that is included in the back of your textbook AND on the course Blackboard site. For this quarter, the modules on the Cardiovascular, Respiratory, and Urinary Systems and Fluid/Electrolyte/pH Balance will be very helpful. Many students who have taken this course in past years have found this software to be extremely beneficial to their learning of material. The A.D.A.M. Interactive Anatomy [AIA] CD, which comes with the ADAM Student Lab Guide, gives you the opportunity to explore the anatomy of the human body in great detail. Its primary benefit will be to supplement and assist your learning of laboratory material, but it will also serve to reinforce what we cover in lecture. You are strongly encouraged to make regular use of this software.

Text End-of Chapter Questions: At the end of each chapter in your textbook, you will find Review Questions, Short Answer Essay Questions, and Critical Thinking and Clinical Application Questions. It is recommended that you answer all of these questions for each chapter covered in class, as a way of reviewing and studying for the test.

How can I do well in this course? ? The most important thing you can do to succeed in this course is come to class regularly and thoroughly read your textbook and review your notes soon after each class. With the volume of material we will be covering, cramming at the last minute seldom works!

In addition, these resources are available to you:

1) TUTORIAL SERVICES: If you need a tutor for this course, contact the Office of Tutorial Service, Dept. of Educational Services, University Pavilion (tel. 556-3244). They will try to arrange a tutor for you. We have recruited some excellent students who have successfully completed the A&P sequence who will be able to help you.

2) Professor Fox’s Office Hours: See hours listed in this syllabus above – you are encouraged to stop by to ask questions as soon as you begin to have difficulty with course material so that you don’t get behind. Anytime my door is open you are welcome to stop in to ask questions or just to talk!

3) Open Lab Hours: Several of the laboratory instructors will keep open office hours each week in 6201 French-West (days/times TBA). They will be able to help you with lecture as well as lab material.

4) Computer software: It can't be over-stated how helpful the ADAM Interactive Physiology software can be to you! Please take advantage of this software as you review and study the muscular system this quarter. The animations in this software will be of enormous help to you.

5) Take responsibility for your learning: It will be up to you to seek help if there are terms or concepts you do not understand. Your lecture and lab instructors are willing to do anything we can (legally, of course!) to help you succeed, but you have to let us know what we can do to help you! We consider ourselves to be facilitators of your learning, working in partnership with you.

- Objectives:**
1. Understand the structure and functions of the heart, blood vessels, and blood.
 2. Understand the relationship of the lymphatic and circulatory 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're covering this quarter.

It's going to be a very busy quarter, and we are covering some extremely interesting and important material. Please get in the habit of reading your textbook and reviewing your A&P notes every night, and come to get help right away if things are confusing.

Don't wait until the last minute - read the text as we cover it in class, and come in as soon as you start having problems.

Get ready for the last quarter of A&P – I hope you enjoy this quarter!

Anatomy and Physiology III
Laboratory Syllabus

15-BIOL-203- Spring 2006

6201 or 6202 French-West

Week	Lab Exercise Numbers* and Topics
1 (3/27-31)	Re-orientation to lab and procedures; safety review. Ex. 29A - Blood [Note – we will not draw human blood, but will use simulated blood or animal blood for all tests.]
2 (4/3-7)	QUIZ; Ex. 30 – Anatomy of the Heart Ex. 31 – Conduction System of the Heart and Electrocardiography (Activity 1a) <i>Ex. 34B – PhysioEx – Frog Cardiovascular Physiology, p. P-71-77</i> Review Sheet and Data Printout from this Ex. OR Ex. 33B are due in lab Wk. 5 <i>ADAM IA – Circulatory System exercises</i>
3 (4/10-14)	<u>Practical #1</u> <i>Ex. 33B – PhysioEx – Cardiovascular Dynamics, p. P-60-70</i> Review Sheet and Data Printout from this Ex. OR Ex. 34B are due in lab Wk. 5
4 (4/17-21)	QUIZ; Ex. 32 – Anatomy of Blood Vessels Ex. 33A – Blood Pressure and Pulse Determinations (skip Activity 3) Ex. 35 – The Lymphatic System and Immune Response
5 (4/24-28)	QUIZ; Ex. 36 - Anatomy of the Respiratory System Ex. 37A – Respiratory System Physiology <i>ADAM IA – Respiratory system exercises</i>
6 (5/1-5)	<u>Practical #2</u> <i>Ex. 37B - Physio-Ex - Respiratory System Mechanics, p. P-78-85</i> Review Sheet and Data Printout from this Ex. are due in lab Wk. 7
7 (5/8-12)	QUIZ; Ex. 38 – Anatomy of the Digestive System <i>ADAM IA – Digestive system exercises</i> <i>Ex. 39B – Physio-Ex - Chemical and Physical Processes of Digestion, p. P-86-96</i> Review Sheet and Data Printout from this Ex. OR Ex. 41B are due in lab Wk. 9
8 (5/15-19)	QUIZ; Ex. 40 – Anatomy of the Urinary System <i>Ex. 41B - Physio-Ex - Renal Physiology - The Function of the Nephron, p. P-97-104</i> Review Sheet and Data Printout from this Ex. OR Ex. 39B are due in lab Wk. 9 <i>ADAM IA – Urinary system exercises</i>
9 (5/22-26)	QUIZ; Ex. 41A - Urinalysis [only simulated urine will be used]
10 (5/30-6/2)	<u>FINAL PRACTICAL EXAM</u> - during regularly scheduled lab times (Monday labs will sign up for make-up practicals later in the week because of the May 29 Memorial Day Holiday)

* *Those in italics are computer-based exercises which you will complete on your own time.*

NOTE: We may not be following all of these lab exercises directly; read the details in this syllabus and come on time for the pre-lab explanation for further information.

Further Information

Ron Canterbury, Assistant Academic Director, is Coordinator of the A&P labs, and instructor of 2 lab sections. There will also be five Graduate Teaching Assistants and two adjunct faculty teaching laboratory sections. Contact information for your laboratory instructor is listed below:

Instructor:

Office:

Phone:

E-mail Address:

Office Hours:

Text: Human Anatomy & Physiology Laboratory Manual, Main Version, 7th ed., Elaine Marieb
A.D.A.M. Interactive Anatomy Student Lab Guide, 2004, Lafferty & Panella
Optional texts: Anatomy Coloring Book; Physiology Coloring Book; Flashcards

Supplementary Materials for lab:

- 1) “**Physio-Ex**” CD-ROM, supplied with Marieb lab manual, contains computer simulations of laboratory experiments for topics like nerve physiology. Detailed instructions for its use are in the lab manual, with the appropriate pages listed on your syllabus. There are **three assigned exercises** from the Physio-Ex CD-ROM this quarter.
- 2) “**A.D.A.M. Interactive Anatomy**” (abbreviated *ADAM IA* on your syllabus) CD-ROM is supplied with Lafferty text. This program contains detailed anatomical illustrations of the human body which you can manipulate to see various levels of detail. The Lafferty book ADAM Interactive Anatomy Student Lab Guide, contains step-by-step instructions for using this program.

Course Web Site: Blackboard site for the course at: <http://blackboard.uc.edu> The site for your specific section number will contain information specific to your lab section, including quiz or practical information, quiz answer keys, lab grades, etc. The course Meta site will contain information common to the lab sections tied to your lecture section, such as the syllabus or general announcements.

Attendance: Attendance is *mandatory* for each lab. Because of space limitations in lab, students will generally not be able to make up labs that are missed. You will only be permitted to make up a lab if you have an unavoidable, legitimate problem and documentation is provided. You must obtain *written* permission from your section instructor to attend another lab section during the week, and you must show that written permission to the instructor of the makeup lab. You should also ask permission to take the pre-lab quiz during the lab section you attend. You will receive **up to two points** for attendance at each lab, assigned at the discretion of your lab instructor. The method for assigning those points will be determined by your lab instructor. You will be required to complete a post-lab checklist to verify that you have completed all laboratory exercises, and your instructor may choose to ask you a series of questions at the end of the lab to determine the number of attendance points you receive. For every lab, your **ACTIVE PARTICIPATION** will be required to earn the full two points for attendance.

Lab Checklists: For each week’s lab, a checklist detailing the activities which should be completed in lab will be posted on Blackboard (on the course Meta site). Each student **must print a copy** of this checklist and **bring it to lab** (copies will NOT be available in lab – you must bring your own!) During the lab you will check off the activities as you complete them, and you will show the completed checklist to your lab instructor at the end of the lab. Your lab instructor will double-check to be sure that you understood everything that was done in the lab, and

will use this discussion and completed checklist to help determine your attendance points for that lab. Students should keep their checklists and use them as study guides in preparing for quizzes and practical exams.

Tests: There will be **three practical exams** during the quarter. The first will be in Week 3, and will cover material from Weeks 1-2; the second will be in Week 6, and will cover material from Weeks 4-5; the final practical will be in Week 10, and will cover material from Weeks 7-9. Practical exams will consist of ~25 stations of ~ 2 questions each consisting of slide identifications, human model or dissected organ identifications, lab procedures, materials, techniques, and questions related to the functions of identified structures, materials, etc. Specific information on the material which will be covered on each practical exam will be given in the lab – basically, things you **see** or **do** in lab and related functions are fair game for the practical exams. **PLEASE NOTE:** It is **NOT POSSIBLE to schedule makeup practical exams after the fact.** If an unavoidable conflict (which you can document) arises and you cannot take the practical with your scheduled class, you **MUST** contact your instructor by the time/day of your class to *request permission* to take the practical during another scheduled time (be prepared to present documentation for your conflict.) You must complete the practical during the week scheduled for the practical – materials are removed and put away after the last practical exam of the week because regular lab will be held on the following day. *No makeups will be possible after the last day of the practical!*

****Note:** The Monday of Week 10 is Memorial Day, which is a University holiday. Since this is the week of the third practical, all students in Monday labs will be asked to sign up for a time later in the week to take their practical exam.

Quizzes: There will be **six lab quizzes**, given on the dates noted on the syllabus. Each quiz will cover the previous week's lab as well as the lab to be completed that day, and will be worth 5 points. Quizzes will generally be given using PowerPoint, or may involve simple identifications of slides, models, etc. from the previous week's lab. Generally, you should review/study the terms, concepts, and results of the previous week's lab and carefully read the upcoming lab, to prepare for each quiz. Carefully review and study the pre-lab PowerPoint used for each lab also. Quizzes will be given during six labs this quarter, but one quiz will be an extra one that can be used if a student has to miss a lab (or it will count as extra points if all six quizzes are taken.) *You will NOT be allowed to make up a quiz if you are late to lab or you miss lab.*

*****If you leave lab after the quiz without completing that day's scheduled lab activities, your quiz will not be graded and you will receive 0 points for that quiz.**

Please note: The attendance and testing policies for this lab are designed to encourage very active participation in the lab each week. Don't give in to the temptation to leave lab early --- **use all the time available to you** to carefully review the slides, models, etc. assigned for that lab. The weekly quizzes and frequent practicals are designed to encourage more regular studying and review of lab materials, as well as active participation in lab.

Grades:

3 Lab Practicals @ 50 pts

= 150 pts.

	5 Weekly Quizzes @ 5 pts.	= 25 pts.
	3 Physio-Ex Assignments @ 10 pts.	= 30 pts.
	Attendance and participation (7 weeks @ 2 pts. + 1 extra)	= 15 pts.
	Total points from laboratory	= 220 pts.

**** Cheating^{##} on any quiz, test, or assignment will warrant an automatic grade of F ****
Academic integrity during laboratory practicals has been a particular concern. We will strictly enforce rules of no talking, touching microscope slides or specimens, or looking at the answer sheets of others during practicals. If any student is observed (by a TA, proctor, or fellow student) during a lab practical touching any part of the microscope slide or stage, showing their answers to another student, or copying answers from another answer sheet, that student's answer sheet will be immediately taken away and they will receive a 0 on the practical. **A student may not have any papers / notes in their possession during a practical exam!** Only a pencil/pen and the practical answer sheet are permitted during a practical – if anything is found in a student's possession which could be used to give the student an advantage in a practical exam, that student will automatically receive a grade of 0 for the practical. **Also remember - The only part of a microscope that may be touched during a practical is the fine adjustment knob.** *Any indication of academic dishonesty will be grounds for a grade of 0 on the activity.* The instructor reserves the right to assign a grade of F for the entire course if warranted.
^{##}Please read the Student Code of Conduct for a discussion of what constitutes cheating and academic dishonesty.

NOTE: Your final grade for the whole course, Anatomy and Physiology III, will be based on ~400 potential points from A&P lecture, and 220 potential points from A&P lab. Final grade scale for the course is located on the lecture syllabus.

Laboratory Reviews/Quizzes: You should completely fill in the answers to all portions of the laboratory review for each exercise covered in lab each week. Answers will be posted on Blackboard so you can check your answers. You should also answer questions, draw pictures, etc. as directed in each lab exercise. **Quiz questions** may come from these **lab review sheets** as well as what you were supposed to **DO and SEE** in each lab. You may discuss answers to the review questions with your classmates, but you won't learn nearly as much if you just copy answers from a classmate or the posted answer keys. Use these lab reviews as a way to help you prepare for the quiz covering that lab!

Anatomy & Physiology Open Lab: 6201 French-West will be the site of review/study sessions on a weekly basis, staffed by the lab instructors. Additional hours will usually be held before each practical exam. Specific days/times will be posted on Blackboard. This will provide an opportunity for you to review and study material in more depth as you prepare for the practical exams. **Take advantage of this!**

Miscellaneous Notes:

*Your lab manual is organized with plenty of space in it for you to record data, answer questions, and draw pictures. Take advantage of this to write down everything you **see** and **do** in lab! You will need this detailed information to help you study for the practicals and quizzes. Make detailed notes about

the appearance of microscope slides, especially – anything that will help you remember what a slide looks like will be helpful!

* All standard safety rules will be followed in this lab. These rules are listed in a separate handout that you will be asked to read and sign if you agree to abide by them. If you don't, or you are not found to be in compliance during labs, you will be withdrawn from the entire course.

*We will be dissecting several animal organs in lab this quarter. You are asked to be respectful of the organs used for this purpose. You are expected to follow safe and appropriate laboratory techniques at all times. It is suggested that you wear old clothes to labs where dissections will occur, and during these labs we will strictly enforce the restriction against open shoes. (Remember this when the weather finally gets warmer!) We also suggest anyone with long hair be prepared to restrain it in some way (it's really icky when you get your hair in animal parts!)

*Remember that the lab is meant to supplement the lecture material, and give you hands-on experience with laboratory techniques. There are many critical components of basic body anatomy that *you will only cover in lab* - for example, detailed names/locations of blood vessels. There may occasionally be questions on lecture tests which require you to relate something you saw or did in lab to material covered in lecture. You get one grade for this course, so lecture and lab material is fully integrated. While the lab may seem like a lot of work to you, please realize that the work is designed to help you focus on what is most important for you to learn. **Lecture is specifically designed with few required assignments to balance out the workload for the two components of the course.**

* ***Cell phones and earphones must be put away during all laboratories.***

No text messaging or phone calls at any time during class, please! Students who do not follow these guidelines will be asked to leave lab, and will be counted as absent for that lab.

Course Objectives:

1. Understand the operation of a microscope, and know its parts and magnifications.
2. Learn very basic dissection skills.
3. Understand the structures and functions of the major animal organ systems, especially in humans.
4. Learn to make careful observations of models, specimens, slides, and laboratory procedures, and how to record those observations in an accurate, neat and orderly fashion.
5. Understand the structures and functions of the major animal organ systems, especially in humans. This quarter the cardiovascular, lymphatic, immune, respiratory, digestive, and urinary systems will be covered in detail. You will learn the locations of all major components of these systems in humans, their detailed structures, and how they function.