

BIO 212 A09C HUMAN PHYSIOLOGY FALL 2012 COURSE SYLLABUS

Instructor: Dr. Courtney Kurtz
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Office Hours: W 11:30-12:30
F 9-10
Also by appointment, as needed

Lab Instructors: Mrs. Sonja Jeter
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Timetable:

Lecture	M W F	10:20 – 11:20	Clow 103	Kurtz
Lab A01L	M	1:50 - 3:50	HS 120	Kurtz
Lab A02L	T	9:40 – 11:40	HS 120	S. Jeter
Lab A03L	T	12:40 – 2:40	HS 120	S. Jeter
Lab A04L	W	11:30 – 1:30	HS 120	S. Jeter
Lab A05L	W	1:50 – 3:50	HS 120	S. Jeter
Lab A06L	Th	9:40 – 11:40	HS 120	S. Jeter
Lab A07L	Th	1:20 – 3:20	HS 120	S. Jeter

Required Textbook & Materials:

Fox, S. Human Physiology, 12th Ed 2011, McGraw-Hill. You are **URGED** by your major programs to keep it for reference in future courses in their departments.

Cooper, S.J. 2012. BIO 212 Human Physiology Lab Manual. UW-Oshkosh.

Prerequisites: **BIO 105** "Introductory Biology: Unity", grade of C or better; and **BIO 211** "Human Anatomy", grade of C or better. Based on these prereqs, I make assumptions about what you already know. See D2L Content's file called "What you already know" to review.

Attendance Policy: I will not take attendance in lecture. Attending lecture and good note-taking skills will increase your ability to do well in class. If you miss a lecture, it is in your best interest to get notes from a classmate. Attendance will be taken in lab. Unexcused absence for a lab section will result in a loss of participation/attendance points (see "Laboratory Policies" section of this syllabus)

E-mail Correspondance & D2L: E-mail communication and D2L will be used frequently throughout the semester to communicate between instructors and students. E-mails constitute legal, official University communication. **You are responsible for checking your e-mail and D2L on a regular basis.** Not checking your e-mail is not an excuse for performance problems in the class. Contact Academic Computing for assistance with email and D2L.

Course Objectives: Biology 212 is an INTRODUCTORY course. Introductory courses are RIGOROUS. Over the course of the semester, you will be introduced to a number of new concepts. In addition, physiology builds on itself. What you learn today, you will use again and again; so you can't forget anything. Fortunately, themes and mechanisms repeat again

and again in the body. Your instructor will make every effort to point out repeating mechanisms, but you must do your part to study them and learn to recognize them yourself.

The specific objectives of this course are:

1. To understand the central physiological principle of **homeostasis**
2. To understand physiological **systems integration**
3. To understand physiology on the **molecular to organ system levels**
4. To build physiology **vocabulary skills**

Course Expectations: Biology 212 is required for two different programs at UW-Oshkosh: Pre-Nursing and Kinesiology & Health. Our duty in this course is to prepare each student for further physiology education: pathophysiology for Nurses and exercise physiology and biomechanics for Kinesiology. BIO 212's content and difficulty, AND the format of its exams, were EXAMINED AND APPROVED by Nursing and Kinesiology faculty. Our concern, and the concern of these programs, is that each 212 student have the opportunity for quality preparation leading to successful licensing in his/her chosen field.

Because of time constraints, BIO 212 cannot cover the physiology of infants and children, the elderly, or disease – even though these topics are covered in depth on the Nursing Boards. You will have the opportunity in the future to take classes on some of these topics, but others will have to be studied ON YOUR OWN. Another goal for 212 is to prepare you for this independent work. Requiring you to buy, read, and keep a quality textbook that you own is one way that we address this goal.

About Lecture: Lectures will be accompanied by PowerPoint slides. Abridged versions of lecture slides will be posted on D2L prior to lecture. These PowerPoint presentations will be missing vital information that you will want to fill in as we go along. In addition, I may discuss topics not addressed in the PowerPoint slides. Lectures will be recorded and these podcasts will be available through the University site on iTunes (accessible through D2L only). **Anything that is discussed in class may be covered on an exam whether it is presented on the lecture slides or not!**

Laboratory Policies: You should plan on lab taking the full 2 hours each week. Do not register for this course if you have a class or work conflict with lab. Lab exercises have been designed to supplement and/or reinforce concepts taught in lecture. Lab instructors have full discretion for grading of lab quizzes and determination of participation/absence grades.

- If you are going to miss your scheduled lab session due to an excused absence (i.e., illness, funeral), make arrangements with your lab instructor to make-up that week's lab ***in another section during the same week***. Due to the nature of physiology labs, there will be no special make-up lab times. You are responsible for contacting your lab instructor at least 1 week in advance to arrange for the lab section change. If you cannot make up the lab at another section that week, you must make arrangements to take that week's lab quiz ***before the first lab section of the next week***. You will be expected to take the quiz covering the lab you missed or you will be given a score of 0 for that quiz.
- Lab grades include 30 points for attendance and participation (see "Grading" below). Attendance will be taken at the beginning of each lab session. One unexcused absence will result in the loss of 15 pts. A second unexcused absence will result in the loss of the remaining 15 pts.
- The lab activities in this course often require working in pairs or groups. If you are not participating in the lab activity and helping the group (e.g., checking your phone, reading emails, etc.) you will lose participation points for that lab. It is up to the discretion of your lab instructor how many points you lose. It is possible to lose all attendance and participation points this way if multiple violations are documented.

- Lab quizzes will be given at the beginning of each lab section. If you are late for a quiz or miss a quiz due to an unexcused absence, you will NOT be allowed to make up that quiz – NO EXCEPTIONS.
- All lab quiz scores will count toward the final grade. **NO QUIZ SCORES WILL BE DROPPED!**

Students with Disabilities: Students with disabilities are welcome in this course. Please contact your lecture instructor **in the first week of class** so that we can discuss necessary accommodations.

Academic Honesty Policies: Policies are clearly defined at this institution and will be followed. Students are referred to the University of Wisconsin-Oshkosh Student Discipline Code as detailed in specific provisions of Chapter 14 of the State of Wisconsin Administrative Code. Any student(s) found in violation of any aspect of the above Code will receive a sanction as detailed in UWS 14.05 and 14.06. Examples of violations include: looking at another student's exam or answer sheet and copying the answers during an exam, talking or whispering to another student during an exam, receiving text messages during an exam on an electronic device or listening to answers or information recorded on an electronic device via earphones during an exam. Cheating on an exam (including looking at someone else's paper) at a MINIMUM leads to zero on that exam, with no opportunity for a make-up or extra credit. A second offense is an F in the course and a report to Dean of Students.

Lecture Exam Policy: **Exams** will be given in class on the assigned dates (see schedule below). Exams will be handed out at the start of the class period (10:20 a.m.) after I am satisfied with seating arrangements and the room is quiet. Exams are closed book and closed notes and a “choose all that apply” format. Students will have the full hour of lecture to complete them (until 11:20 a.m.), but NO LATER. You **MUST** be present for **EVERY** scheduled exam!! Make-up exams will be available **only** if the student suffers a life-threatening illness or death of a loved one and has a medical excuse or documentation (e.g., obituary) to support that claim. If you cannot be present for an exam, it is **your** responsibility to get in touch with me **before** the rest of the class takes the exam. If you need to make-up an exam due to an excused absence, a comprehensive make-up exam is scheduled for *Friday, December 14 at 10:20 a.m. in my office (HS 252)*. ***If you miss an exam and the above conditions are not met, you will receive a zero for that exam.***

Lecture Online Quiz Policy: In addition to in-class, closed-book, closed-note exams, there will be four online (D2L), open-book, open-note quizzes. These quizzes will be short, in the “choose all that apply” format and **TIMED**. Although they are technically open-note and open-book, you will not have time to dig through your notes to find an answer for each question. As such, you should study your notes since the last exam **before** beginning the online quiz. You will only have one opportunity to complete the quiz and will not be allowed to answer questions once your time has run out. There will be **NO** make-up online quizzes. If you fail to take an online quiz before the deadline for **ANY REASON**, you will receive a 0 for that quiz.

Lecture Pop Quiz Policy: There will also be unannounced “pop” quizzes throughout the semester in lecture. Some of these quizzes will allow you to work with a partner, others you will have to complete on your own. There is **NO** make-up for a pop quiz. If you are late to class or do not attend class and miss a pop quiz, you will receive a 0 for that quiz.

Common Courtesy: Ringing cellular phones are a distraction to the instructor and others in the class. Turn off all cell phones, pagers and MP3 players before class. Keep them in your backpack or purse until class is finished. **NO cell phones, PDAs, headphones or other electronic devices will be allowed out during an exam!**

Suggestions for Success:

1. Always attend class and take notes.
2. Read ahead and re-read. Use the Index and Table of Contents.
3. You can't forget what you learned in the first week. It's all important.
4. Join a study group (or work with a tutor) where you talk about the material and do problems out of the text to rehearse the material.
5. Look for the homeostatic patterns in everything you learn.
6. Recognize that physiology is not anatomy; memorization is of far less use in physiology; instead you must think about mechanisms in motion that you cannot see. Moreover, physiology content is like a spiderweb, not a line; information builds on information and "cross-links" with other information.
7. Rewrite your notes each week into "study posters" where you consolidate all the information given on a particular topic no matter what date it was taught. Working on study posters each week with your study group would be excellent. Examples of study poster topics are: Joe Cell, Making ATP, Red Blood Cells, Body pH, Digestion, Moving a Muscle. You'll think of others...

Center for Academic Resources

The Center for Academic Resources (CAR) provides free tutoring for students in most undergraduate courses. Check the Tutor List page on CAR's website (www.uwosh.edu/car) for a current list of available tutors. To schedule a tutoring session, simply email the Tutor, let him/her know what class you are seeking assistance in, and schedule a time to meet. If your course is not listed, click on a link to request a Tutor. Tutoring takes place in SSC 102. The Center for Academic Resources also provides support to students through Supplemental Instruction and the Peer Educator program. Visit their website for more information.

Grading: Grades will be posted on D2L throughout the semester. FINAL lab grades will be posted to the lecture D2L at the end of the semester and computed into final grades. Due to privacy concerns, I will NOT give grades out over the phone or reveal grades in phone messages.

Grades will be based on the following:

Lecture Exams	400	points
Online Quizzes	120	points
Pop Quizzes	30	points
Lab Quizzes	220	points
<u>Lab Attendance/Participation</u>	<u>30</u>	<u>points</u>
TOTAL POINTS POSSIBLE	800	points

The grading scale is:

93-100%	A
90-92%	A-
87-89%	B+
83-86%	B
80-82%	B-
77-79%	C+
73-76%	C
70-72%	C-
67-69%	D+
63-66%	D
60-62%	D-
< 60	F

*When calculating final grades, I always round up to the nearest percentage point. In other words, if you have a 72.2%, you will be rounded up to 73% and receive a C, not a C-.

Tentative Lecture and Laboratory Outline: This schedule is intended as a basic outline of the course lectures. Extenuating circumstances may require a deviation from this schedule. I will inform the class ahead of time if this is the case.

Date	Lecture Topic	Book	Online Quiz	Lab Topic	Lab Quiz
9/5 9/7	Introduction to Physiology Basic Biochemistry	Ch. 1 Ch. 2,3,5		NO LAB THIS WEEK	---
9/10 9/12 9/14	Basic Biochemistry Membrane Transport Membrane Transport	Ch. 2,3,5 Ch. 6		Hematology	
9/17 9/19 9/21	Neurophysiology Neurophysiology Neurophysiology	Ch. 7,8,9	Quiz 1 due	Membrane Potential, EEG, & Sleep	1
9/24 9/26 9/28	Neurophysiology Exam Review Exam 1	Ch. 7,8,9		Brain Imaging	2
10/1 10/3 10/5	Sensory Physiology Sensory Physiology Endocrinology	Ch. 10 Ch. 11		Special Senses	3
10/8 10/10 10/12	Endocrinology Muscle Physiology Muscle Physiology	Ch. 11 Ch. 12,13	Quiz 2 due	ADAM: Skeletal Muscle, Muscle Function	4
10/15 10/17 10/19	Muscle Physiology Exam Review Exam 2	Ch. 12,13		Heart Rate & Blood Pressure	5
10/22 10/24 10/26	Cardiovascular Physiology Cardiovascular Physiology Cardiovascular Physiology	Ch. 13,14		ADAM Cardiac Function, ECG	6
10/29 10/31 11/2	Respiratory Physiology Respiratory Physiology Immune Physiology	Ch. 16 Ch. 15	Quiz 3 due	Respiratory Function	7
11/5 11/7 11/9	Immune Physiology Exam Review Exam 3	Ch. 15		Immune System	8
11/12 11/14 11/16	Osmoregulatory Physiology Osmoregulatory Physiology Osmoregulatory Physiology	Ch. 17		Urinalysis	9
11/19 11/21 11/23	Osmoregulatory Physiology THANKSGIVING BREAK THANKSGIVING BREAK	Ch. 17		NO LAB THIS WEEK	
11/26 11/28 11/30	Digestive Physiology Digestive Physiology Digestive Physiology	Ch. 18	Quiz 4 due	Blood Typing	10
12/3 12/5 12/7	Reproductive Physiology Reproductive Physiology Reproductive Physiology	Ch. 20		Disorders of Sexual Development	11
12/10 12/12 12/14	Exam Review Exam 4 Comp. Make-Up Exam			NO LAB THIS WEEK	