



University of Oregon
Department of Human Physiology
Course Syllabus

Human Physiology II- HPHY 314 Winter 2007

Meets: 08:30-09:50 Tuesday and Thursday in Room 282 LILLIS

Instructors: Christopher T. Minson, Ph.D.
John R. Halliwill, Ph.D.

All questions concerning lab procedures or schedules should be directed to your laboratory instructor. The list and contact information for each lab section will be posted on the course website.

Minson:

Office: 138 Esslinger Hall **Office Hours:** Tuesday 1-3 pm.

Phone: 346-4105 **E-Mail:** minson@uoregon.edu

Halliwill:

Office: 160 Esslinger Hall **Office Hours:** Tuesday 1-3 pm.

Phone: 346-5425 **E-Mail:** halliwil@uoregon.edu

Text: Human Physiology-An Integrated Approach (Fourth Edition)
Dee Silverthorn

General Course Description: We will cover the areas of cardiac physiology, cardiovascular physiology, pulmonary and respiratory physiology, and renal physiology. This class is also taught as an "integrative physiology" class as the concepts taught will have a lot of overlap requiring you to integrate what you have learned on previous topics with the new material. There are a few areas of physiology that we simply do not have time to cover in the 313/314 series...including the gastrointestinal system, immunology, reproduction, and metabolism. However,

some aspects of these systems will be covered in concert with the systems we do cover in an "integrative physiology" fashion.

Course Objective(s): The primary objective of this course is to develop an understanding of how the circulatory, pulmonary, and renal systems work together to transfer oxygen from the atmosphere to the tissues, to maintain adequate blood pressure to perfuse the tissues with blood and oxygen. A secondary objective of this course is to present clinically relevant case studies and the physiological changes that have either caused the pathology or that have occurred due to the pathology.

Grading Criteria: Grades will be assigned based upon the score of 3 exams, 2 midterm exams (scheduled on February 1st and February 22nd), and the final exam (on Tuesday March 20th). **YOU WILL NOT BE ABLE TO TAKE THE FINAL EXAM EARLY!!!!** The final score on the class will be based on the sum of these 3 exams. If you know you will miss an exam, you must let one of us know ***beforehand***. The cumulative scores will be placed on a curve for final grade assignment.

Blackboard site: The majority of information for this course will be conveyed to you via the Blackboard site.

Reading assignments and topics of discussion: The order of discussion topics presented in the book is not the one we will always follow. Furthermore, we will cover some information in class that is not covered in the textbook. In some cases, the chapters in the book will be in greater depth than the lectures. In others the reverse will be true. We will try to create the best connection between the two that we can. The best approach to the lectures is to ***come to class***, and to prepare before the class meets. The best approach to the book is to look at it as an alternative way to present material that can help by filling out some of the details that might be excluded from the lectures. On a practical note, since the goal of the course is to understand the material in as great a depth as possible, required reading should be considered a source of exam questions.

Human Physiology 313 IS a prerequisite for this course! We will build upon and expand the concepts covered in 313. Even if you did well in 313, it is advisable that you review material from 313 that pertains to what we are covering, as the background concepts are fundamental to understanding the topics covered this term.

OUTLINE OF THE COURSE LECTURES AND READING ASSIGNMENTS

- Week 1 Chapter 14 *Cardiovascular Physiology*
Lectures: Minson
- Week 2 Chapter 14 *Cardiovascular Physiology*
Lectures: Minson
- Week 3 Chapter 6: pages 177-189; Finish Chapter 14
Chapter 15 *Blood Flow and Control of Blood Pressure*
Lectures: Minson
- Week 4 Chapter 15 *Blood Flow and Control of Blood Pressure*
Lectures: Minson
MIDTERM EXAM ON THURSDAY FEBRUARY 1st!!
- Week 5 Chapter 15 *Blood Pressure Control and Cardiovascular Diseases*
Lectures: Minson
- Week 6 Chapter 16 *Blood*
Lectures: Halliwill
- Week 7 Chapter 17 *Mechanics of Breathing*
Lectures: Halliwill
MIDTERM EXAM ON THURSDAY FEBRUARY 22nd!!
- Week 8 Chapter 18 *Gas Exchange and Transport*
Lectures: Halliwill
- Week 9 Chapter 19 *The Kidneys*
Lectures: Halliwill
- Week 10 Chapter 20 *Fluid and Electrolyte Balance*
Lectures: Halliwill

FINAL EXAM: TUESDAY MARCH 20TH AT 8am in 282 LILLIS.