



University of Oregon
Department of Human Physiology
Course Syllabus

Integrative Endocrine Physiology- HPHY 418 Spring 2007
Meets: 08:00-09:20 Tuesday/Thursday in Room 110 Willamette

Instructors: Vern Katz, M.D.
Christopher Minson, Ph.D. (Coordinator)

Guest Lecturers: Diane Baird, M.D., Bill Maier, M.D.,
Phoebe Ashley, M.D., Daniel Phillips, M.D.,
Charles Stanton, M.D.

Graduate Teaching Assistant:

Nicole Miller, B.S.
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Katz: **E-Mail:** VKatz@peacehealth.org

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

General Course Description: The underlying theme of this class is "Endocrine Physiology" as we will focus on how the endocrine system regulates some of the physiological systems we covered and some we did not cover in 313-314. This class is also taught in an "integrative" fashion 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.

Course Objective(s): The primary objective of this course is to develop an understanding of how the endocrine system regulates and controls the various physiological systems, and to explore some of the systems we were not able to cover in 313-314 in a more comprehensive manner. 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, and to discuss the processes by which they are treated.

Grading Criteria: Grades will be assigned based upon the score of 4-5 quizzes with approximately 8-10 questions each, a mid-term exam in the 5th week, and a final exam (on Thursday June 14th). The quizzes will be on Blackboard. They will be posted on Thursday or Friday, and will have to be completed by the start of class on the following Tuesday. If you know you will not be able to take a quiz, you must let Dr. Minson or Nicole Miller know beforehand. The exams will be multiple choice questions and 1-2 short answer/essay questions. The quizzes will total 1/3 and each exam will count 1/3 towards the final cumulative points. 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 information in class that is not covered in the textbook. In most cases, the lectures will be in greater depth than the chapters in the book and will have a more clinical focus. In some cases, additional reading material will be provided to you for certain topics. It is expected that you will have read the material before class. 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 quiz and exam questions.

Human Physiology 313 and 314 are prerequisites for this course! Even if you did well in 313 and 314, it is advisable that you review material from these classes 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
NOTE!!! THIS IS FLEXIBLE AND WILL BE UPDATED AS THE SCHEDULE OF
LECTURERS DICTATES!!!

Week 1	Chapter 7 4/3-4/5	<u>Introduction to Endocrinology</u> Intro: Katz; Lectures: Katz
Week 2	Chapter 7/23 4/10-4/12	<u>Endocrinology: Hypothalamus/Pituitary/Adrenals/Thyroid</u> Lectures: Katz
Week 3	Chapter 23/21 4/17-4/19	<u>Growth Hormone and Digestion</u> Lectures: Katz/Stanton
Week 4	Chapter 21/22 4/24-4/26	<u>Metabolism and Digestion Pathology</u> Lectures: Katz/Phillips
Week 5	Assigned Readings 5/1 5/3	<u>Skin Pathology</u> Lecture: Baird MID-TERM EXAM!!!
Week 6	Pages 525-529/512-516 5/8-5/10	<u>Cardiac/Coronary Pathology-Heart Disease</u> Lectures: Ashley
Week 7	5/15-5/17	<u>Endocrine and Hemodynamic Responses to Heat Stress</u> Lectures: Minson
Week 8	5/22-5/24	<u>Coagulation and the Immune System</u> Lectures: Katz/Maier
Week 9	5/29-5/31	<u>Puberty, Calcium Metabolism and Growth</u> Lectures: Katz
Week 10	6/5-6/7	<u>Sexual Differentiation-Reproduction and Aging</u> Lectures: Katz

FINAL EXAM: Thursday JUNE 14TH AT 8 A.M.
NO EARLY EXAMS WILL BE GIVEN!!!!