

INTEGRATIVE BIOLOGY 137 (HUMAN ENDOCRINOLOGY)

Date	Topic	Reading ^{*1} (Hadley)
INTRODUCTION		
Thur, Aug 24:	Introduction: What is Endocrinology?	Chap. 1
Tues, Aug 29 :	Anatomy of the Endocrine Glands and Methods in endocrinology	
Thur, Aug 31:	GH/PRL	Chap. 2,4
Tues, Sept 5:	The HPT	Chap. 2,4
Thur, Sept 7:	The HPA and HPG	Chap. 2,4
Tues, Sept 12:	Hormone Mechanisms of Action (steroids) and techniques in Endocrinology	Chap. 2,4
Thurs, Sept 14:	Problem Solving	Chap. 3
Tues, Sept 19:	MIDTERM 1	
REPRODUCTION AND DEVELOPMENT		
Thur, Sept 21:	Reproductive Endocrinology of Males	Chap. 17
Tues, Sept 26:	Reproductive Endocrinology of Females	Chap. 18
Thur, Sept 28:	Comparison of Males and Females, and Contraception	
Tues, Oct 3:	Pregnancy	Chap. 19
Thur, Oct 5:	Sex differentiation	Chap. 16
Tues, Oct 10:	Development of fetal endocrine glands	Chap. 19
Thur, Oct 12:	Parturition, lactation, and the fetal placental unit	Chap. 16
Tues, Oct 17:	Growth, Puberty, and sex steroids	Chap. 12
Thur, Oct 19:	MIDTERM 2	
PHYSIOLOGY		
Tues, Oct 24:	Homeostasis 1: what is it...sugar as an example	Chap. 11
Thur, Oct 26:	Homeostasis 2: Sugar Balance cont.	Chap. 11
Tues, Oct 31:	Homeostasis 3: Salt and Water Balance	Chap. 9
Thur, Nov 2:	Homeostasis 4: Salt and Water Balance cont.	Chap. 15
Tues, Nov 7:	Homeostasis 5: Ca ⁺⁺ Metabolism	
Thur, Nov 9:	Losing it: Homeostasis loss	Chap. 15
Tues, Nov 14:	Aging and Menopause	
Thur, Nov 16:	MIDTERM 3	
Tues, Nov 21:	GSI lecture	
Thurs, Nov 23:	Thanksgiving Day: No Class	
SPECIAL TOPICS		
Tues, Nov 28:	Professor's choice: From Silent Spring to Silent Night: A Tale of Toads and Men	
Thurs, Nov 30:	Closing	
Mon, Dec 11:	FINAL EXAM	

^{*1} Suggested reading only. You will be given papers that will be discussed in section each week. You will be responsible for the material in the papers on the exams, but will not be tested from the text.

Integrative Biology 137: Human Endocrinology

Exam Group 2 (Monday, Dec 11, 11:30-2:30)

Unit Value: 4

Discussion Section 101: Class number 15848, Friday, 9:00-10:00, Dwinelle 89

Discussion Section 102: Class number 15849, Friday, 10:00-11:00, Evans 41,

Discussion Section 103: Class number 15850, Friday 11:00-12:00, Cory 237

Discussion Section 104: Class number 15854, Friday 12:00-1:00, Dwinelle 279

Course Requirements: There will be two 1 1/2 hour lectures per week plus one 1 hour discussion section per week. Discussion section will review papers from the primary literature. These papers will be assigned each week and available on B-courses. Discussion is required and a portion of test questions (10% = one letter grade) will come from discussion section and outside readings. **YOU WILL NOT LIKELY DO WELL IF YOU DO NOT ATTEND DISCUSSION.** There will be three midterms and a final.

Midterms are 60% of the final grade (20% each) and the final exam is worth 40%. The final is cumulative. The course is not graded on a curve: 90% or above is an A; 80-89% = B; 70-79% = C, 50-69%=D, less than 50% is a non-negotiable F.

Prerequisites: Bio 1A; Human Physiology (IB 132) or similar course strongly recommended.

Reading List: Primary research papers will be provided throughout the semester for each topic and will be discussed in section. Endocrinology, by Mac Hadley is recommended. This text is for reference only. Test material will come from lecture and discussion section (not the text). Use the text to look up terms, view pictures and diagrams, clarify points etc.