

INTEGRATIVE BIOLOGY 137 (HUMAN ENDOCRINOLOGY)

Date	Reading ^{*1}	Topic	(Hadley)
INTRODUCTION			
Thur, Aug 27:	Introduction: What is Endocrinology?		Chap. 1
Tues, Sept 1:	Anatomy of the Endocrine Glands and Hormone Axes		
Thur, Sept 3:	GH/PRL		Chap. 2,4
Tues, Sept 8:	The HPT		Chap. 2,4
Thur, Sept 10:	The HPA and HPG		Chap. 2,4
Tues, Sept 15:	Hormone Mechanisms of Action (steroids) and techniques in Endocrinology		Chap. 2,4
Thurs, Sept 17:	Problem Solving		Chap. 3
Tues, Sept 22:	MIDTERM 1		
REPRODUCTION AND DEVELOPMENT			
Thur, Sept 24:	Reproductive Endocrinology of Males		Chap. 17
Tues, Sept 29:	Reproductive Endocrinology of Females		Chap. 18
Thur, Oct 1:	Comparison of Males and Females, and Contraception		
Tues, Oct 6:	Pregnancy		Chap. 19
Thur, Oct 8:	Sex differentiation		Chap. 16
Tues, Oct 13:	Development of fetal endocrine glands		Chap. 19
Thur, Oct 15:	Parturition, lactation, and the fetal placental unit		Chap. 16
Tues, Oct 20:	Growth, Puberty, and sex steroids		Chap. 12
Thur, Oct 22:	MIDTERM 2		
PHYSIOLOGY			
Tues, Oct 27:	Homeostasis 1: what is it...sugar as an example		Chap. 11
Thur, Oct 29:	Homeostasis 2: Sugar Balance cont.		Chap. 11
Tues, Nov 3:	ELECTION DAY: NO CLASS		
Thur, Nov 5:	Homeostasis 3: Salt and Water Balance		Chap. 9
Tues, Nov 10:	Homeostasis 4: Salt and Water Balance cont.		Chap. 15
Thur, Nov 12:	Homeostasis 5: Ca ⁺⁺ Metabolism		
Tues, Nov 17:	Losing it: Homeostasis loss		Chap. 15
Thur, Nov 19:	Aging and Menopause		
Tues, Nov 24:	MIDTERM 3		
Thur, Nov 26:	THANKSGIVING DAY: NO CLASS		
SPECIAL TOPICS			
Tues, Dec 1:	GSI's Lecture: TBA		
Thurs, Dec 3:	Professor's Lecture: "FROM SILENT SPRING TO SILENT NIGHT: A TALE OF TOADS AND MEN"		
Tues, Dec 15:	FINAL EXAM (8-11:00 am)		

^{*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

Course Number: 22063

Lecture Time: Tues, Thur (2-3:30 pm)

Unit Value: 4

Discussion Section 101: Course number 22064, Friday, 9-10 am

Discussion Section 102: Course number 22065, Friday, 10-11 am

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.

Prof. tyrone B hayes

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Office hours: Wed 8:30-9:30am