

INTEGRATIVE BIOLOGY 137 (HUMAN ENDOCRINOLOGY)

Date	Topic	Reading ^{*1} (Hadley)
INTRODUCTION		
Thur, Aug 27:	Introduction: What is Endocrinology?	Chap. 1
Tues, Sept 1 :	Anatomy of the Endocrine Glands, Hormone axes and GH/PRL	
Thur, Sept. 3 :	The HPT	Chap. 2,4
Tues, Sept 8:	The HPA and HPG	Chap. 2,4
Thur, Sept 10:	Hormone Mechanisms of Action (steroids)	Chap. 2,4
Tues, Sept 15:	Methods 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:	Homeostasis 3: Salt and Water Balance	Chap. 9
Thur, Nov 5:	Homeostasis 4: Salt and Water Balance cont.	Chap. 15
Tues, Nov 10:	Homeostasis 5: Ca ⁺⁺ Metabolism	
Thur, Nov 12:	Losing it: Homeostasis loss	Chap. 15
Tues, Nov 17:	Aging and Menopause	
Thur, Nov 19:	MIDTERM 3	
Tues, Nov 24:	GSI lecture	
Thurs, Nov 26:	Thanksgiving Day: No Class	
SPECIAL TOPICS		
Tues, Dec 1:	Professor's choice: From Silent Spring to Silent Night: A Tale of Toads and Men	
Thurs, Dec 3:	Closing	
Tues, Dec 15:	FINAL	

^{*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 Control Number: 42409

Location: 2060 Valley Life Sciences Building

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

Exam Group 5 (Tues., Dec. 15, 8:00-11:00 am)

Unit Value: 4

Discussion Section 101: F 8-9A, 205 DWINELLE, CCN: 42412, GSI: Lisa Treidel

Discussion Section 102: F 8-9A, 209 DWINELLE, CCN: 42421, GSI: Neta Gotlieb

Discussion Section 103: F 9-10A, 3019 VL5B, CCN: 42415, GSI: Neta Gotlieb

Discussion Section 104: F 10-11A, 3019 VL5B, CCN: 42424, GSI: Mai Nguyen

Discussion Section 105: F 12-1P, 3019 VL5B, CCN: 42418, GSI: Mai Nguyen

Discussion Section 106: F 3-4P, 79 DWINELLE, CCN: 42427 Lisa Treidel

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-course. 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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