Hormones and Behavior (Psych C116/Bio C143B)
MW 1-2 105 Stanley

Textbook: *An Introduction to Behavioral Endocrinology, 5th Edition,* by Randy J. Nelson and Lance J. Krigsfeld, Sinauer, Sunderland, MA. (ISBN-10: 1605353205)

Readings: Additional readings from primary literature will be distributed on bCourses to be critically reviewed during Discussion Sections. These readings will complement material from course lectures.

Course Description: This course will provide a comprehensive overview of behavioral endocrinology beginning with hormone production and actions on target tissues and continuing with an exploration of a variety of behaviors and their hormonal regulation/consequences. We will use a comparative approach to examine the reciprocal interactions between the neuroendocrine system and behavior, considering the effects of hormones on development and adult behavior in addition to how behavior regulates endocrine physiology. While much of the course will focus on non-human vertebrate species, the relevance to humans will be explored where appropriate. Topics include: sexual differentiation and sex differences in behavior, reproductive, parental, and aggressive behaviors, and hormonal and behavioral homeostatic regulation.

Grades: Three examinations (33.33% each) consisting of multiple choice and short answer questions are tentatively scheduled for February 21, March 21, and during the schedule final exam date/time. The exams will cover material from lectures, assigned readings, and discussion materials. DSP students inform your instructor of any accommodations needed during the first week of class. **** There will be NO makeup exams, so please do not miss exams ****

Class	Date(s)	Topic	Book Chapter
Week 1	1/17	Class Introduction	Chapter 1
		****No Discussion Sections this week. ****	
Week 2	1/22	Endocrine Techniques/Measures	Chapter 1
	1/24	Intro to Endocrine System	Chapter 1
		****No Discussion Sections this week. ****	
Week 3	1/29	Intro to Endocrine System	Chapter 2
	1/31	Glands, Axes, and Regulation	Chapter 2
Week 4	2/5	Glands, Axes, and Regulation	Chapter 2
	2/7	Sex Differentiation (history)	Chapter 3
Week 5	2/12	Sex Differentiation (mechanism)	Chapter 4
	2/14	Sex Differentiation (mechanism)	Chapter 4
Week 6	2/19	NO CLASS- President's Day	
	2/21	****FIRST EXAM****	**Chapters 1-4**
		****No Discussion Sections this week. ****	
Week 7	2/26	Male Reproduction	Chapter 5
	2/28	Male Reproduction	Chapter 5
Week 8	3/5	Female Reproduction	Chapter 6
	3/7	Female Reproduction	Chapter 6
Week 9	3/12	Parental Behavior	Chapter 7
	3/14	Parental Behavior	Chapter 7
Week 11	3/19	Exam 2 Review	
	3/21	****SECOND EXAM****	**Chapters 5-7**
		****No Discussion Sections this week. ****	
	3/26	NO CLASS – Spring Break	
	3/28	NO CLASS – Spring Break	
Week 12	4/2	Hormones and Social Behavior	Chapter 8
	4/4	Hormones and Social Behavior	Chapter 8
Week 13	4/9	Hormones and Homeostasis	Chapter 9
	4/13	Hormones and Rhythms	Chapter 10
Week 14	4/18	Hormones and Rhythms	Chapter 10
	4/20	Endocrine Control of Stress	Chapter 11
Week 15	4/25	Endocrine Control of Stress	Chapter 11
	4/27	Endocrine Control of Stress	Chapter 11
		**** THIRD EXAM****	**Chapters 9-11**
		(During scheduled final exam time)	