

Biology 4390 – Endocrinology

Fall 2019 Syllabus

GENERAL COURSE INFORMATION

Instructor: Dr. Eivers

Instructors Office/lab: La Kretz Hall (LKH392/350)

Email Address: eeivers@calstatela.edu

Phone: 323-343-2075

Lecture: T/Th: 12:15pm – 1:30pm, **Location:** BIOS 247

Office Hours: 12-1 Wednesdays or by appointment

COURSE DESCRIPTION:

This course will focus on the anatomy, physiology, biochemistry, and molecular biology of the human endocrine system. The primary organs of the endocrine system will be covered in detail these include, pituitary gland, pancreas, adrenal, thyroid, parathyroid, gonads and pineal gland. Hormone synthesis, actions, control mechanisms, physiological outcomes and disease states will also be covered in this course.

STUDENT LEARNING OUTCOMES:

- Develop a vocabulary of appropriate endocrine terminology
- Demonstrate a knowledge of cellular signaling mechanisms utilized by the endocrine system
- Demonstrate an understanding of the anatomical structures and physiological processes of the various endocrine glands and their hormones
- Students should understand the major endocrine axes, including positive and negative feedback effects of hormones

COURSE TEXTBOOK: None required

COURSE WEBSITES: CSULA GET – CANVAS

ATTENDANCE AND BEHAVIOUR

Lecture attendance is expected and very important to the overall progress you can achieve in this course. You are responsible for your education and so it is in your best interest to be present in class and be an active participant.

NOTE: No inappropriate behavior will be tolerated in lecture.

MAKE-UP EXAMS

No makeup exams will be given, exception will **ONLY** be permitted with documentation (such as a physician's note) of a serious and compelling reason for a missed exam.

LECTURE EXAM PROCEDURE

Leave ALL your personal items either in the back of the lecture hall, or on the floor in the front of the lecture hall. The only items you can take to your seat are the materials needed to take the exams such as pencils, pens, scantrons and erasers. No electronic devices of any kind are allowed to be on you on exam days. If you are LATE the day of the exam, you will NOT be allowed to take the test if ONE person has already turned in their exam.

IMPORTANT NOTICE!

Cell phones: must be switched off during class, no texting or answers calls.

ACADEMIC HONESTY

Students are expected to read and abide by the University's Academic Honesty Policy, which can be found at: [http://catalog.calstatela.edu/NXT/gateway.dll/currentcatalog-30/newlevel00082/depttitle00086.htm?f=templates\\$fn=document-frame.htm\\$3.0\\$vid=calstate:current\\$force=287](http://catalog.calstatela.edu/NXT/gateway.dll/currentcatalog-30/newlevel00082/depttitle00086.htm?f=templates$fn=document-frame.htm$3.0$vid=calstate:current$force=287)

Students who violate this policy will be subject to disciplinary action determined by class professor and departmental chair.

ADA STATEMENT

Reasonable accommodation will be provided to any student who is registered with the Office of Students with Disabilities and requests needed accommodation.

SYLLABUS DISCLAIMER STATEMENT

Serious effort and consideration were used in formulating the course syllabus. While viewed as an educational contract between Professor and student, unforeseen events may cause changes to the scheduling of lectures, exercises, examinations, etc. Every effort will be made NOT to change scheduled items. Nonetheless, Dr. Eivers reserves the right to make any changes deemed necessary to best fulfill the course objectives. Students registered for this course will be made aware of any changes in a timely fashion using reasonable means (i.e. through campus email or course website). This disclaimer does not abrogate any student rights as described by University rules and regulations.

GRADE BREAKDOWN

Component	Pts		%	Comments
Canvas Quizzes	120	Online	18	6 Canvas quizzes. (20pts each) Multiple choice questions
In class exercises	100	In class	15	5 in class exercises (20pts each)
Midterm Exams I & II	240	In class	35	Two 75 minute in class midterm exams; formats may be any or all of the following: short-answer, fill in the blanks, diagramming (120pts per midterm exam)
Final Exam	220	In class	32	One cumulative in class final exam; Similar format to midterm exams
Total	680		100	

GRADING

You will receive a single grade for the lecture and lab portions of the course. Letter grades will be determined based on the grading scale below.

A = (93% - 100%) C+= (77% - 79%)

A- = (90% - 92%) C = (73% - 76%)

B+ = (87% - 89%) C- = (70 - 72%)

B = (83% - 86%) D = (60% - 69%)

B- = (80% - 82%) F = (Below 59%)

LECTURE SCHEDULE FALL 2019

<u>Date</u>	<u>week</u>	<u>Topic</u>	<u>Additional Activity</u>
Aug 20 th	1	Introduction, syllabus review, course expectations	
Aug 22 nd	1	Introduction to Endocrinology	
Aug 27 th	2	Introduction to cell signaling	
Aug 29 th	2	Signaling mechanisms	Canvas Quiz 1
Sep 3 rd	3	Introduction to the hypothalamic-pituitary axis.	In Class Exercise
Sep 5 th	3	Growth hormone	
Sep 10 th	4	Thyroid hormone	
Sep 12 th	4	Thyroid hormone.	In Class Exercise
Sep 17 th	5	Review	
Sep 19 th	5	MIDTERM EXAM I	
Sep 24 th	6	Exam review - Gastrointestinal hormones	
Sep 26 th	6	Pancreatic hormones	Canvas Quiz 2
Oct 1 st	7	Pancreatic hormones, metabolic disease	
Oct 3 rd	7	Calcium and Phosphate regulation	Canvas Quiz 3
Oct 8 th	8	Calcium and Phosphate regulation.	In Class Exercise
Oct 10 th	8	Adrenal – regulating stress	
Oct 15 th	9	Adrenal – regulating fluid volume	
Oct 17 th	9	Vasopressin-ADH and Natriuretic peptides	Canvas Quiz 4
Oct 22 nd	10	Review	
Oct 24 th	10	MIDTERM EXAM II	
Oct 29 th	11	Exam Review – A Brief Review of Heredity	
Oct 31 st	11	Hypothalamic–pituitary–gonadal axis male.	In Class Exercise
Nov 5 th	12	Hypothalamic–pituitary–gonadal axis female	
Nov 7 th	12	Endocrine Hormones and Pregnancy	Canvas Quiz 5
Nov 12 th	13	Fetal Endocrine System	
Nov 14 th	13	Review day no class	
Nov 19 th	14	Erythropoietin.	In Class Exercise
Nov 21 th	14	Pineal and melatonin	Canvas Quiz 6
Nov 26 th	--	Thanksgiving break	
Nov 28 th	--	Thanksgiving break	
Dec 3 rd	15	Review week	
Dec 5 th	15	Review week	
TBA	16	FINAL	