

## BIOL 4320: Endocrinology

**Course leader:** Bruce S. Cushing

**Contact:** [bcushing@utep.edu](mailto:bcushing@utep.edu)

Time/date: remote lectures, exams 3:00 - 4:20 TR

Location: Blackboard

Office Hours: either T or R 3:00-4:20 or by appointment

**TEXT** – No required textbook – there will be handouts to aid in learning

**Course format:** This is a lecture course that will be presented using YuJa enhanced podcasts. In addition to Yuja enhanced podcast presentation – a PDF of lecture notes will be provide on blackboard. Login using your **UTEPnet ID and password**).

**Blackboard and Computer Access:** This course is **absolutely dependent** on you being able to access and use Blackboard. All tests and course communications will be done through the course website. If you are unable to access the internet from home, you will need to use any of the various UTEP computer laboratories, or obtain a hotspot from the University.

**PREREQUISITES:** BIOL 1035 and 1107 and CHEM 1306 and 1408.

**COURSE DESCRIPTION:** This course will explore in depth the endocrine system, including the major endocrine glands and other sights of hormone production, hormones, including structure and function, and signal transduction. In addition we will discuss some conditions produced by endocrine disorders.

### **Learning Objectives and Outcomes:**

*At the end of this course, the student should be able to:*

- 1) Know what a hormone is – in terms of structure and function. the sources, functions, and mechanisms of the apply their knowledge of endocrine system.
- 2) To be able to describe the function of major hormones, including how they affect physiology and homeostasis.
- 3) To have a general understanding of the endocrine system, in terms of major glans and additional sites of hormone production.

### **Grading and Exams Taking Tests**

Grades will be determined by 4 midterm exams. Tests: **You will have 5 class days following posting of the answers/results to discuss questions. Following this period there will be no further reconsideration of exam scores.**

Make-up Policy: There will no scheduled make-up exams.

In order to avoid a ZERO on that exam:

You must notify the instructor **before 5pm on the day of the test** in order for the instructor to determine if the excuse is valid. Only legitimate excuses will be accepted (such as serious illness

or a death in the family). I reserve the right to request proof/verification of absences. A note that you visited a physician on the day of the test does not validate an illness. **Please make sure that your internet connection is functional as is your webcam prior to the exam.**

**DROP POLICY:** In order to receive a W you must drop the course prior to the official drop date of Oct 30th.

**GRADING POLICY:** Exams will be multiple choice or a combination multiple choice, short answer questions/fill in the blank, and or essay questions. In answering essay question incorrect information will be considered wrong and result in a reduction of points. There will be four midterm test each of equal value with each test covering the material between tests.

#### Grade

A = 90 -100%      B = 80 – 89.6%      C = 70 – 79.6%      D = 60 – 69.6%  
F = 59.9% and below

**Academic integrity:** Students are expected to be aware of, and abide by, UTEP’s Honor code. Information on this policy can be found at <http://academics.utep.edu/Default.aspx?tabid=23785>. All test shall be taken by the student enrolled in the class without communication between students or the use of any notes or other sources, unless in association with special accommodations (see below). Failure to meet these requires will be considered cheating and result in a zero on any exam and other possible action.

**Special accommodations:** If you need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to [cass@utep.edu](mailto:cass@utep.edu), office visitation may be limited do to COVID concerns, however it is located in UTEP Union East, Room 106. For additional information, please visit the CASS website at [www.sa.utep.edu/cass](http://www.sa.utep.edu/cass)

**Diversity and inclusivity:** I support an inclusive learning environment where diversity and individual differences are understood, respected, appreciated, and recognized as a source of strength.

**SUBJECT OUTLINE (TENTATIVE)** - While test dates are fixed material to be tested will depend on what we have covered between tests. **It is your responsibility to know the material and sections to be covered on the exam.** Please note reading material may be assigned to help you understand the material.

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## Schedule

I. Introduction – Historical Perspective – Endocrine System  
Overview - Hormones – classification, function, synthesis –  
Methodologies

II. Hormonal Mechanisms of Action – Signal Transduction

III. The brain and pituitary

IV. Endocrine systems

V. Steroidal Systems – adrenals and reproduction

Test and Other important dates

First Day of Class

August 25<sup>th</sup>

Last Day to Drop with a W

Oct 30th

Thanksgiving Break

Nov 26<sup>th</sup> – 27<sup>th</sup>

## EXAMS

**1<sup>st</sup> Midterm**

**Sept 15<sup>th</sup>**

**2<sup>nd</sup> Midterm**

**October 13<sup>th</sup>**

**3<sup>rd</sup> Midterm**

**Nov 3<sup>rd</sup>**

**4<sup>th</sup> Midterm**

**Dec 3<sup>rd</sup>**