

PHYL 6091 Selected Topics in Physiology Cell Biology of the Neuron

Fall 2016

CLASS DAYS and TIME: Wednesdays, 11-12

CLASSROOM: TBD

COURSE FACULTY: Benjamin A Eaton, Ph.D. Associate Professor, Dept. of Physiology

OFFICE LOCATION and HOURS: By Appointment, 337D

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READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.

COURSE DESCRIPTION AND OBJECTIVES

This course will address current topics related to the cell biology of the neuron. This includes, but not limited to, the regulation of synapse growth and function, microtubule-based transport, and control of neural excitability.

Pre-requisites – none

Semester credit hours – 1 credit

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1) Presentation and discussion of primary research articles
- 2) Each student will be required to present at least one primary research article during the semester
- 3) Articles are selected by instructor

Materials – The course will materials consist of primary research articles provided by the instructor.

Computer Access – The student is required to have access to PubMed and on-line journal access provided by UTHSCSA.

Reading Assignments – Primary research articles will be assigned every week. Students will be expected to read articles prior to class and be prepared to discuss content.

ATTENDANCE

Attendance is required and will contribute to student's overall grade.

TEXTBOOKS

Required: none

Recommended: none

GRADING POLICIES AND EXAMINATION PROCEDURES

The final grade will be based 1) attendance, 2) participation, and 3) presentations. Each absence drops the final grade by ½ of a grade. Participation grade is at the discretion of the instructor. Each student will be expected to lead the presentation of at least one paper per semester.

Grading System

A = 90-100% B = 80-89% C = 70-79% F = < 69%

REQUESTS FOR ACCOMODATIONS FOR DISABILITIES

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eeo/request.asp>.

ACADEMIC INTEGRITY AND PROFESSIONALISM

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

TITLE IX AT UTHSCSA

Title IX Defined:

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

University of Texas Health Science Center San Antonio’s Commitment:

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

EMAIL POLICY

There is no official email policy.

USE OF RECORDING DEVICES

Recording devices are not permitted.

ELECTRONIC DEVICES

The personal use of electronic devices such as cell phones, computers, tablets, etc. is prohibited during class except as needed for discussion.

TENTATIVE CLASS SCHEDULE
PHYL 6091 Selected Topics in Physiology
Cell Biology of the Neuron
 Fall 2016

WEEK	DATE	TOPIC	Assignment	Instructor and Modality
Week 1		Class overview		Eaton
Week 2		Mechanisms of axonal transport I	Paper discussion	Eaton
Week 3		Mechanisms of axonal transport II	Paper discussion	
Week 4		Mechanisms of axonal transport III	Paper discussion	
Week 5		Exocytosis of synaptic vesicles I	Paper discussion	Eaton
Week 6		Exocytosis of synaptic vesicles II	Paper discussion	
Week 7		Endocytosis of synaptic vesicles I	Paper discussion	
Week 8		Endocytosis of synaptic vesicles II	Paper discussion	
Week 9		Synapse formation I	Paper discussion	Eaton
Week 10		Synapse formation II	Paper discussion	
Week 11		Synapse Aging I	Paper discussion	Eaton
Week 12		Synaptic Aging II	Paper discussion	
Week 13				
Week 14				
Week 15				
Week 16				
Week 17				