

**PHAR 7003**  
**Electrophysiology in Neuroscience Research**

SEMESTER and YEAR

---

**CLASS DAYS and TIME:** Various

**CLASSROOM:** Medical Building – 217B

**COURSE FACULTY:** Daniel Lodge, PhD

**OFFICE LOCATION and HOURS:** N/A

**EMAIL:** [Lodged@uthscsa.edu](mailto:Lodged@uthscsa.edu)

**TELEPHONE:** 21-567-4188

---

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

#### **COURSE DESCRIPTION AND OBJECTIVES**

The purpose of this course is to explore the rationale underlying the use of electrophysiological techniques in neuroscience research. Rather than focusing on the technical aspects of electrophysiology, this course will discuss current 'hot topics' manuscripts that utilize different electrophysiological approaches including in vivo (anesthetized and conscious), in vitro extracellular (single-unit and field potential), intracellular and patch. It is anticipated that at the end of the course students will be more familiar with the area of electrophysiology and able to understand why particular approaches are utilized in neuroscience research and be able to critically review electrophysiological data from manuscripts.

The content of the course is tailored to each student. The manuscripts are selected by the students in consultation with course director.

**Pre-requisites** – Fundamentals of Neuroscience

**Semester credit hours** – 1 credit hour

By the end of this course, each student should be able to:

- understand why particular approaches are utilized in neuroscience research and be able to critically review electrophysiological data from manuscripts..

#### **COURSE ORGANIZATION**

**The main teaching modalities used in this course include:**

- 1) In person paper discussion

#### **GRADING POLICIES AND EXAMINATION PROCEDURES**

##### **Grading System**

Grading is either Satisfactory or Unsatisfactory.

## 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/>