

PHAR 7003
Electrophysiology in Neuroscience Research

Spring 2018

CLASS DAYS and TIME: Various

CLASSROOM: Medical Building – 217B

COURSE FACULTY: Daniel Lodge, PhD

OFFICE LOCATION and HOURS: N/A

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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/eoo/request.asp>.

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