Instructors
Principal instructor of record: Dr. Arshad M. Khan (amkhan2 [at] utep.edu), Office hours by appt.
Teaching assistant: Mr. Long Jiao (ljiao [at] miners.utep.edu)

Definitions and Objectives
Cellular Neuroscience is the study of nervous system function often taught from a perspective that emphasizes operations at the cellular level and also from seminal discoveries made from work involving diverse model organisms, both invertebrate and vertebrate. This course honors both of these traditions; first, by presenting an overview of basic nerve cell function, including, most importantly, the mechanisms that make neurons capable of transmitting and receiving electrical signals to and from other cells. Second, in learning this material, we will examine classic pioneering studies, performed in the last century, that identify fundamental neural mechanisms in molluscs, insects, crustaceans, amphibians, reptiles, birds and mammals.

Course Organization and Grading
Attending lectures is the key to your success in this class. Attendance however, will not be graded. You are also encouraged to attend the class discussions each week where we will help answer any questions you have on class material, but you are not required to attend them. There are no exams in this course, but online workbooks in Blackboard for you to complete. Of your total grade, Workbook 1 = 25%, Workbook 2 = 25%, Workbook 3 = 25%, and Workbook 4 = 25%. The workbooks will be open-book and open-note, and we will not be using a lockdown browser. The workbooks are strictly based on the slides and in-person lectures, so taking notes is strongly recommended. You will have 5–7 days to complete each workbook (usually over a weekend). Note that there is no “final exam”, just four workbooks, each non-overlapping and non-cumulative. Grading is strictly on a % scale: A (90–100), B (80–89), C (70–79), D (60–69), F (below 60).

Text

Prerequisites
Students must be undergraduates in good standing, and the completion of ZOOL 2406/4380 or Biol 1108/1306 is required.

UTEP Policy on Academic Dishonesty
Any student who commits an act of scholastic dishonesty is subject to discipline and will be reported to the Dean of Student Affairs. Scholastic 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 or to an artificial intelligence system (e.g., ChatGPT), taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

Accessibility
If you have or suspect you have a disability and need accommodations, contact the Center for Accommodations and Support Services (CASS) at (915) 747-5148, e-mail their office at cass@utep.edu, or go to the CASS AIM portal to request accommodations online (https://www.utep.edu/student-affairs/cass/). You are responsible for ensuring that Dr. Khan receives any CASS accommodation letters and instructions.