CHMD79H3F
TOPICS IN BIOLOGICAL CHEMISTRY
FALL 2021 SYLLABUS

Course Instructor
Kagan Kerman e

Sept. 16 Electrodes and Voltammetry-1

Learning objectives: Solid electrodes (Glassy carbon, carbon paste, metal electrodes), mercury electrodes, microelectrodes, screen-printed electrodes, reference electrodes, cyclic voltammetry-1

Sept. 23 Voltammetry-2

Learning objectives: Cyclic voltammetry-2, differential pulse voltammetry, square wave voltammetry, stripping voltammetry, amperometry

Sept. 30 Electrochemical Impedance Spectroscopy

Learning objectives: AC voltammetry, Nyquist plot, Bode plot, Equivalent circuits.

Printable nonenzymatic glucose biosensors using carbon nanotube-PtNP nanocomposites modified with AuRu for improved selectivity

Nov. 25 Oral presentations-1

Dec. 2 Oral presentations-2

Evaluation:

Take-home Mid-term	**30%**	**From October 20th , Wednesday 9 am to October 22nd, Friday 5 pm (EST)**
Take-home Final Exam	**40%**	**From December 13th , Monday 9 am to December 17th, Friday 5 pm (EST)**

Course Policies and General Information: