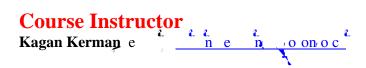
## CHMD79H3F TOPICS IN BIOLOGICAL CHEMISTRY

FALL 2021 SYLLABUS



## **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

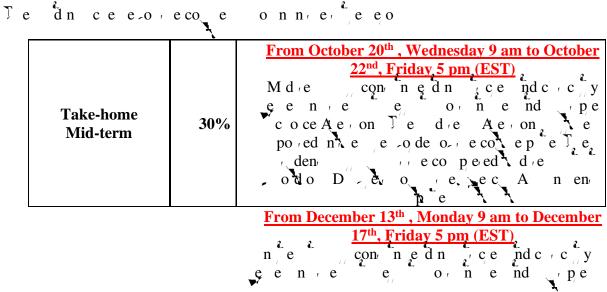
Learning objectives: AC voltammetry, Nyquist plot, Bode plot, Equivalent circuits.

 $\label{lem:printable} Printable\ nonenzy matic\ glucose\ biosensors\ using\ carbon\ nanotube-PtNP\ nanocomposites\ modified\ with\ AuRu\ for\ improved\ selectivity$ 

## Nov. 25 Oral presentations-1

# Dec. 2 Oral presentations-2

**Evaluation:** 



Take-home Final Exam

40%

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