

Electrochemistry 9524 Course Outline

Electrochemistry 9524A

Lectures held Tuesdays and Thursdays, 1430-1600 h

jjnoel@uwo.ca

Phone ext. 88029

7. Electrochemical Instrumentation

- voltmeters, ammeters, potentiostats, galvanostats, IR compensation, design of electrochemical cells

After taking this course, students should:

- understand the meaning and underlying sources of electrochemical potential
- be able to visualize the structure of charged interfaces (e.g., electrode/solution interface)
- be able to calculate the expected electromotive force of a cell under standard and non-standard conditions
- understand the potential-current relationship in electrochemical kinetics and its fundamental basis
- understand the principles of a range of basic electrochemical measurement techniques (based on thermodynamic and/or kinetic theory)
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Statement on Academic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy,