

Ohio University
 Department of Chemical Engineering
 ChE-455/ChE-555: Analysis of Electrochemical Systems
 Winter Quarter 2007
Tentative Schedule

Week	Date	Subject/Comments	Assignment	Reading
Week 1/2 *	01/15/07	No Class. University Holiday		
	01/16/07	Syllabus Course Project Introduction Basic Concepts (3:10-5:00 pm)	HW-1	Syllabus, Schedule, Project Ch1, Class Notes 1 Ch2, Class Notes 2
	01/17/07	Basic Concepts		Ch2, Class Notes 2
	01/18/07	Basic Concepts (3:10-5:00 pm)		Ch2, Class Notes 2
	01/19/07	Basic Concepts	HW-1 due, HW-2	Ch2, Class Notes 2
Week 3/4 *	01/22/07	Basic Concepts Muddiest Point (3:10-5:00 pm)		Class Notes 2
	01/23/07	Thermodynamics (3:10-5:00 pm)		Ch3, Class Notes 3
	01/24/07	Lab I: Electrolysis Experiment	HW-2 due	EH-1
Week 5	01/29/07	Thermodynamics (3:10-5:00 pm)	Q1, HW-3	Ch3, Class Notes 3
	01/31/07	Lab II: Electroplating Experiment	LR-1 due Project Sketch due	EH-2
Week 6	02/05/07	Thermodynamics (3:10-5:00 pm)		Ch3, Class Notes 3
	02/07/07	Lab III: Fuel Cell Experiment	Paper (Graduate Students) due LR-2 due	EH-3
Week 7	02/12/07	Thermodynamics Muddiest Point Electrode Kinetics (3:10-5:00 pm)	HW-3 due, HW-4	Ch3, Class Notes 3 Ch5, Class Notes 4
	02/14/07	Workshop 1: Lithium Ion Batteries	LR-3 due	WSH-1
Week 8	02/19/07	Electrode Kinetics (3:10-5:00 pm)	Q2	Ch5, Class Notes 4
	02/21/07	Workshop 2: Plating and Electrode Characterization		WSH-2
Week 9	02/26/07	Electrode Kinetics Muddiest Point Mass Transport (3:10-5:00 pm)	HW-4 due HW-5	Ch5, Class Notes 4 Ch6, Class Notes 5
	02/28/07	Workshop 3: Fuel Cells		WSH-3
Week 10	03/05/07	Mass Transport (3:10-5:00 pm)	Q3	Ch6, Class Notes 5
	03/07/07	Workshop 4: Hydrogen Economy Course Project Presentations	HW-5 due Course Project	WSH-4

* Classes to make up for weeks 1 and 2 of the quarter. Total 4 hours.

Electro-Che-e-Car Competition: Tentative: Thursday, March 15 at 2:00 pm. Room, date, and times to be defined

Legend:

EH: Experiment Hand Out

Ch: Book Chapter (Electrochemical Engineering Principles)

WSH: Workshop Hand Outs

LR: Lab Report

Q: Quiz

HW: Homework

Paper: Review paper (**assignment only for Graduate Students**)

Quizzes Content:

Q1: Basic Concepts (Ch2 and Class Notes 2)

Q2: Thermodynamics (Ch3 and Class Notes 3)

Q3: Electrode Kinetics (Ch5 and Class Notes 4)

Starting week 5, classes were rescheduled to meet only 2 days a week from 3:10 to 5:00 (M and W)