

CHE 31. INTRODUCTION TO CHEMICAL ENGINEERING CALCULATIONS

Schedule of Lectures. 1st Semester 2010 - 2011

	Tuesday	Thursday
Week 1	8-Jun	10-Jun
	Class Policies and Course Requirements	What is Chemical Engineering?
Week 2	15-Jun	17-Jun
	Lect 1. Units and Dimensions	Lect 2. Linear Regression and Nonlinear Axes
Week 3	22-Jun	24-Jun
	Lect 3. Fundamental Process Variables	Lect 3. Fundamental Process Variables
Week 4	29-Jun	1-Jul
	Lect 4. Chemical Equation and Stoichiometry	Lect 4. Chemical Equation and Stoichiometry
Week 5	6-Jul	8-Jul
	Lect 4. Chemical Equation and Stoichiometry	Lect 5. Ideal Gas Calculations
Week 6	13-Jul	15-Jul
	Lect 6. Real Gas Relationships	Lect 6. Real Gas Relationships
Week 7	20-Jul	22-Jul
	Lect 7. Saturation	Lect 7. Saturation
Week 8	27-Jul	29-Jul
	Lecture 8. Vapor-Liquid Equilibria	Lecture 8. Vapor-Liquid Equilibria
Week 9	3-Aug	5-Aug
	Lecture 8. Vapor-Liquid Equilibria	Lect 9. The Material Balance & Lect 10. Program of Analysis for MB Problems
Week 10	10-Aug	12-Aug
	Lect 11. MB Problems Involving Non-Reactive Processes	Lect 11. MB Problems Involving Non-Reactive Processes

Week 11	17-Aug	19-Aug
	Lect 12. MB Problems Involving Reactive Processes	Lect 12. MB Problems Involving Reactive Processes
Week 12	24-Aug	26-Aug
	Lect 13. Combustion Processes	Lect 14. Recycle, Bypass, and Purge Calculations
Week 13	31-Aug	2-Sep
	Lect 14. Recycle, Bypass, and Purge Calculations	Lect 15. Concepts and Units for Energy Balances
Week 14	7-Sep	9-Sep
	Lect 16. Calculation of Enthalpy Changes	Lect 16. Calculation of Enthalpy Changes
Week 15	14-Sep	16-Sep
	Lect 17. EB Problems Involving Non-Reactive Processes	Lect 17. EB Problems Involving Non-Reactive Processes
Week 16	21-Sep	23-Sep
	Lect 18. EB Problems Involving Reactive Processes	Lect 18. EB Problems Involving Reactive Processes
Week 17	28-Sep	30-Sep
	Lect 18. EB Problems Involving Reactive Processes	
Week 18	5-Oct	7-Oct