

Ohio University  
 Department of Chemical and Biomolecular Engineering  
 ChE-101 Approaches to Chemical Engineering Problem Solving  
 Spring Quarter 2009

**Tentative Schedule**

Week	Date	Subject/Comments	Assignment		Reading
			Assigned	Due	
Week 1	03/31/09	Syllabus. Examples of Applications. Matlab Basics Computer Lab accounts Explanation of Class Project	Project		H-1
	04/02/09	Matlab Basics Tutorial I: Basic Operations with Matlab Flowchart diagrams/script m-files	HW-1		CN, Ch-1 T-I H-2, Ch-4
Week 2	04/07/09	Muddiest Point: Matlab Basics Flowchart diagrams/script m-files. Decision making Tutorial II: Quality Program and Script m-files While loops			CN, Ch-4, T-II Ch-4, H-2
	04/09/09	Muddiest Point: Flowchart diagrams/script m-files. Class Exercise (grades for class program)	HW-2	HW-1	CN, Ch-4, T-II H-2
Week 3	04/14/09	Class Exercise. Finish Tutorial II Tutorial VIII: Basics of Excel		Minutes 1	CN, Ch-4, T-II, T-VIII
	04/16/09	Exam 1 Review (Matlab basics, flowchart diagrams, script m-files, while loops, decision making, basics of Excel) Arrays and Matrices	HW-3	HW-2	Read all material for the exam H-3, Ch-2, Ch-3
Week 4	04/21/09	Exam 1: Matlab basics, Flowchart diagrams, script m- files, while loops, decision making, basics of Excel		Exam 1	
	04/23/09	Tutorial III: Working with Arrays and Matrices/for loops			CN, Ch-2, Ch-3, T-III
Week 5	04/28/09	Muddiest Point: Arrays and Matrices Function Files Tutorial IV: Function Files	HW-4	HW-3	T-IV
	04/30/09	Muddiest Point: Function files Developing Quality Plots and Tables		Minutes 2	H-4, Ch-5
Week 6	05/05/09	Tutorial Va: Tables in Matlab Tutorial Vb: Plots in Matlab	HW-5	HW-4	CN, Ch-5, T-V
	05/07/09	Linear Algebraic Equations (LAE) Linear Regression			CN CN
Week 7	05/12/09	Tutorial VI: Solving LAE using Matlab Tutorial VII: Linear Regression using Matlab/Excel		HW-5	T-VI T-VII
	05/14/09	Muddiest Point: LAE and Linear Regression Non Linear Algebraic Equations (Non-LAEs)		Minutes 3	CN
Week 8	05/19/09	Tutorial IX: Solving non-LAE using Matlab			T-IX
	05/21/09	Exam 2 Review (Arrays, for loops, function files, plots and tables)		Project	Read all material for exam
Week 9	05/26/09	Exam 2: It is comprehensive. Need to know about arrays, function files, plots and tables, and everything that was covered in Exam 1		Exam 2	
	05/28/09	Exercises Non-LAEs			CN, T-IX
Week 10	06/02/09	Finish Tutorial IX			CN, T-IX
	06/04/09	Review for the Final Exam			Read all

					material for the exam
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**Final Exam:** Tuesday, June 9, at 4:40 pm. Stocker 414 (Computer Lab)

Legend:

H: Hand Out    HW: Homework    CN: Class Notes    T: Tutorial    Ch: Chapter from required book