

Syllabus: CBE425/565 Polymer Rheology -updated 16 November 12

	Week	Date	Topics	Chapter	HW	Comsol
1		14-Sep-12	Introduction	1	video	
2	1	17-Sep-12	Vectors and Tensors	2		
3	1	19-Sep-12	Vectors and Tensors			
4	1	21-Sep-12	Newtonian Fluid mechanics		HW1	
5	2	24-Sep-12	Newtonian Fluid mechanics	3		
6	2	26-Sep-12	Newtonian Fluid mechanics		HW2-A	
7	2	28-Sep-12	Standard Flows	4		
8	3	1-Oct-12	Standard Flows			
9	3	3-Oct-12	Standard Flows		HW2-B	
10	3	5-Oct-12	Material Functions	4,5,6		
11	4	8-Oct-12	Exam 1		Exam1	
12	4	10-Oct-12	Material Functions			
13	4	10-Oct-12	Material Functions			
	4	12-Oct-12	no class			
14	5	15-Oct-12	Material Functions			Part A
15	5	17-Oct-12	Experimental Observations			
16	5	19-Oct-12	Experimental Observations			
17	6	22-Oct-12	Experimental Observations		HW3	
18	6	24-Oct-12	Generalized Newtonian Fluids			
19	6	26-Oct-12	Generalized Newtonian Fluids	7		
	break	29-Oct-12	break		-	
	break	31-Oct-12	break		-	
	break	2-Nov-12	break		-	
20	7	5-Nov-12	Linear Viscoelasticity			
21	7	7-Nov-12	Linear Viscoelasticity			
22	7	9-Nov-12	Linear Viscoelasticity	8		
23	8	12-Nov-12	Linear Viscoelasticity		HW4	
24	8	14-Nov-12	LVE/Advanced Rheology			
25	8	16-Nov-12	Advanced Rheology			Part B
26	9	19-Nov-12	Advanced Rheology			
	9	21-Nov-12	no class			
	break	23-Nov-12	break			
27	10	26-Nov-12	Advanced Rheology		HW5	
28	10	28-Nov-12	Advanced Rheology	9		
29	10	30-Nov-12	Advanced Rheology			
30	11	3-Dec-12	Chapters 4-8		Exam 2	
31	11	3-Dec-12	Advanced Rheology			
32	11	5-Dec-12	Advanced Rheology			
33	11	7-Dec-12	Rheometry			
34	12	10-Dec-12	Rheometry	10	HW6	
35	12	12-Dec-12	Rheometry			
36	12	14-Dec-12	Course Summary			
	reading period	15-Jan-13			HW7	Final report
	Final	24-Jan-13 1:30pm	Room TBA		Final	