

MSE 220 Fall 2014 Schedule and Syllabus All Reading Assignments from Callister's 9th edition (Use our special Wiley site to buy the book)

Week and Month	Date	Reading (this will change)		Topic	DUE	Activity	Project (These may all change)
1 Sept.	2			Class Organization		Introduction	
	4	Ch 2 and 19.3		Bonding		LearningCatalytics	Project 1: presentation
2	9	Ch 3.1-3.17		Crystallography		LearningCatalytics	
	11	Ch 4.1-4.11		Crystallography	P1 proposal due	LearningCatalytics	
3	16	Ch 5.1-5.4		Defects	PS 1: Bonding and Crystallography	PS 1 discussion (Ch 2, 19.3, and 3)	
	18	Ch 5.5-5.7		Defects		RAA 1 (Ch 2, 19.3, and 3)	
4	23	Ch 9.1-9.10		Diffusion		LearningCatalytics	
	25	Ch 9.11-9.15, 9.17-9.20		Phase Diagrams		LearningCatalytics	
5	30	Ch 10.1-10.9		Phase Diagrams	PS 2: Defects, Diffusion and Phase Diagrams	PS 2 discussion (Ch 4, 5 and 9)	
Oct.	2	Ch 11.1-11.8 only annotate 3 of the sections -your choice (not on RAA)		Phase Transformations		RAA 2 (Ch 4, 5 and 9)	
6	7	Ch 6.1-6.12		Mechanical Properties		LearningCatalytics	Project 2: poster
	9					Project Presentations	
7	14	Fall Break				Fall Break - No Class	
8	16	Ch 7.1-7.13		Strengthening		LearningCatalytics,	
	21	Ch 8.1-8.13		Failure	PS 3: Phase Transformations, Mechanical Properties, and Strengthening	PS 3 Discussion (Ch 10, 11, 6, 7)	
9	23			Failure	P2: electronic proposal submission	RAA 3 (Ch 10, 11, 6, 7)	
	28	Ch 12.1-12.11		Ceramics		LearningCatalytics	
10 Nov.	30	Ch 13.1-13.5, 13.10		Ceramics and Ceramic processing		LearningCatalytics	
	4	Ch 14.1-14.14		Polymers	PS 4: Failure, Ceramics,	PS 4 Discussion (Ch 8, 12, 13)	
11	6	Ch 15.1-15.9		Mechanical Properties of Polymers		RAA 4 (Ch 8, 12, 13)	
	11	Ch 15.10-15.19		Polymer processing		LearningCatalytics	
12	13	Ch 16.1-16.16		Composites	P2: Poster file: will put on stick	LearningCatalytics	
	18	Ch 17.1-17.4		Electrochemistry	PS 5: Polymers, Mech. Prop of Polymers, Composites	PS 5 Discussion (Ch 14, 15 and 16)	Project 3: video
13	20	Ch 17.5-17.13		Electrochemistry	P3 :electronic proposal submission P2 Team Report: electronic submission	RAA 5 (Ch 14, 15 and 16), Project Poster Fair	
	25	Ch 18.1-18.9		Electronic Properties		LearningCatalytics	
	27	Thanksgiving				Thanksgiving - No Class	
14 Dec.	2	Ch 18.10-18.17		Electronic Properties		LearningCatalytics	
	4			Electronic Properties	P3: electronic proposal submission PS 6: Electrochemistry and Electronic Properties	LearningCatalytics PS 6 Discussion (Ch 17 and 18)	
15	9					RAA 6 (Ch 17 and 18), Project Video Due	
	15					Project Video Festival (1:30-3:30 in 133 Chrysler)	