

# MSE 220 Fall 2013 Schedule and Syllabus All Reading Assignments from Callister's 8th edition (Use our special Wiley site to buy the book)

Month and week	Date	Reading		Topic	DUE	Activity	Project (These may all change)
September 1	3			Class Organization		Introduction	
	5	Ch 2 and 19.3		Bonding		LearningCatalytics	Project 1: Ice 9 and cloud seeding
	10	Ch 3.1-3.17 Ch 4.1-4.4		Crystallography		LearningCatalytics	
2	12				P1	Project proposal review	
	17	Ch 4.5-4.11. Ch 5.1-5.7		Defects and Diffusion	PS 1: Bonding and Crystallography	PS 1 discussion (Ch 2, 19.3, and 3)	
3	19					RAA 1 (Ch 2, 19.3, and 3)	
	24	Ch 9.1-9.20		Phase Diagrams		LearningCatalytics	
4	26					LearningCatalytics	
October	1	Ch 10.1-10.9 Ch 11.1-11.9		Phase Transformations and Processing	PS 2: Defects, Diffusion and Phase Diagrams	PS 2 discussion (Ch 4, 5 and 9)	
5	3					RAA 2 (Ch 4, 5 and 9)	
	8	Ch 6.1-6.12 Ch 7.1-7.13		Mechanical Properties and Strengthening		LearningCatalytics	Project 2: Superhero suit design
6	10					Project Presentations	
	15	Fall Break				Fall Break - No Class	
7	17	Ch 8.1-8.13		Failure		LearningCatalytics,	
	22				PS 3: Phase Transformations, Mechanical Properties, and Strengthening	PS 3 Discussion (Ch 10, 11, 6, 7)	
8	24	Ch 12.1-12.11 Ch 13.1-13.3, 13.5, 13.9, 13.11		Ceramics and Processing	P2: electronic submission	RAA 3 (Ch 10, 11, 6, 7)	
	29	Ch 14.1-14.14		Polymers		LearningCatalytics	
9	31					LearningCatalytics	
	5	Ch 15.1-15.24		Mechanical Properties of Polymers	PS 4: Failure, Ceramics,	PS 4 Discussion (Ch 8, 12, 13)	
10	7					RAA 4 (Ch 8, 12, 13)	
	12	Ch 16.1-16.15		Composites		LearningCatalytics	
11	14	Ch 17.1-17.13		Electrochemistry	P2: Poster file: will put on stick	LearningCatalytics, Project proposal review	
	19				PS 5: Polymers, Mech. Prop of Polymers, Composites	PS 5 Discussion (Ch 14, 15 and 16)	Project 3: Solar cell/ Battery design on Mars
12	21				P3 :electronic submission P2 Team Report: electronic submission	RAA 5 (Ch 14, 15 and 16), Project Poster Fair	
	26	Ch 18.1-18.17		Electronic Properties		LearningCatalytics	
13	28	Thanksgiving				Thanksgiving - No Class	
December	3					LearningCatalytics	
14	5				PS 6: Electrochemistry and Electronic Properties	PS 6 Discussion (Ch 17 and 18)	
	10					RAA 6 (Ch 17 and 18), Project Video Festival	
15							
	13	Final Exam					