Organic Chemistry of Macromolecules

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Class:	MWF; 9-10 am in 1650.	
Text:	Polymers: Chemistry and Physics of Modern Materials by J.M.G. Cowie, 3 rd edition	
Supplemental:	Principles of Polymerization by Odian, 4 th edition	
	Polymer Chemistry by Stevens, 3 rd edition	
Requirements :	Your grade will be based on three exams, five problem sets, and a class project.	
Grading:	Exam 1 (Mon. February 7, 2011; 7-9 pm; 1706) Exam 2 (Mon. March 14, 2011; 7-9 pm; 1706) Exam 3 (Mon. April 18, 2011; 7-9 pm; 1706)	25% of final grade (200 pts) 25% of final grade (200 pts) 25% of final grade (200 pts)
Grading System:	The exams will be graded using the 0-5-10 system. For example, if a question is worth 10 points, you can get a 0, 5, or 10. <i>We round to the closest number</i> .	
Problem Sets∶	Problem sets (5) will be graded <i>based on effort</i> with an S (20 pts) or U (0 pts). It is your responsibility to check the answer key to check the accuracy of your answers. These problems are representative of ones you will see on the exams. 12.5% of final grade (100 pts).	
Class Project:	You will work in assigned groups to create or edit a Wikipedia site related to an important topic or person in polymer chemistry. This project will begin mid-January and more details will come. 12.5% of final grade (100 pts).	
Refresher:	You should go over your undergraduate organic chemistry course material and refresh your memory on the standard functional groups and their reactivity. You should be able to draw an arrow-pushing mechanism for these basic transformations: S_N1 , S_N2 , transesterifications, amide formation, alcohol additions to isocyanates, enolate alkylations and acid/ester condensations, free radical reactions with alkenes, electrophilic additions to alkenes, alkene and alkyne metathesis reactions.	

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