

# Chemical Engineering

## Teaching Schedule, 2011-2012

<i>CRSE</i>	<i>COURSE TITLE</i>	<i>FALL</i>	<i>WINTER</i>	<i>SPRING</i>
		Time/Days Professor	Time/Days Professor	Time/Days Professor
190	Engineering of Chemical and Biological Processes			
210	Analysis of Chemical Process Systems	11 MTWF Lab 12-2, 2-4, 4-6 M <b>Notestein</b>		
211	Thermodynamics		11 MTWF <b>Snurr</b>	
212	Phase Equilibrium and Staged Separations			9 MTWF <b>Dranoff</b>
275	Molecular and Cell Biology for Engineers		1 MTWF <b>Tyo</b>	
307	Kinetics and Reactor Engineering			1 MTWF <b>Bagheri / Torkelson</b>
312	Probability and Statistics for Chemical Engineering		2 MTWF <b>Felse</b>	
321	Fluid Mechanics	2 MTWF <b>Burghardt</b>		
322	Heat Transfer		9 MTWF <b>Torkelson</b>	
323	Mass Transfer			3-4:50 MW <b>Boggs</b>
341	Dynamics and Control of Chemical and Biological Processes		10 MTWF <b>Leonard</b>	
342	Chemical Engineering Laboratory	9-5:30 Th <b>Boggs</b>		9-5:30 Th <b>Boggs</b>
345	Process Optimization			4-5:50 TF <b>You</b>
351	Process Economics, Design, and Evaluation	12 MTWF <b>Cole</b>	12 MTWF <b>Cole</b>	
352	Chemical Engineering Design Projects		12:30-1:50TTh <b>You / Towler</b>	12-1:50 MW <b>Cole / Towler</b>
361	Introduction to Polymers	10 MTWF <b>Torkelson</b>		
364	Chemical Processing and the Environment			
365	Sustainability, Technology, and Society			3-4:20 TF <b>Kung</b>
371	Transport Phenomena in Living Systems			
372	Interfacial Phenomena and Bionanotechnology			
375	Biochemical Engineering		9 MTWF <b>Jewett</b>	
377	Bioseparations			10 MTWF <b>Kourkine</b>
379	Introduction to Computational Biology			2 MTWF <b>Leonard</b>
390	Personal and Organizational Effectiveness			

395	Special Topics in Chemical Engineering	4-5:20 MW <b>Ryskin<sup>1</sup></b>	11 MTWF <b>Notestein<sup>2</sup></b>	11 MTWF <b>Snurr<sup>3</sup></b>
404	Advanced Thermodynamics		3-4:50 TTh <b>Grzybowski</b>	
406	Selected Topics in Thermodynamics			4-5:20 MW <b>Ryskin</b>
408	Chemical Engineering Kinetics and Reactor Design	4-5:50 TTh <b>Broadbelt</b>		
409	Advanced Reactor Design			
410	Principles of Heterogeneous Catalysis		4-5:50 MW <b>Abrevaya</b>	
421	Fluid Mechanics	9 MTWF <b>Burghardt</b>		
422	Heat and Mass Transfer		12:30-1:50 MWF <b>Ryskin</b>	
438	Interdisciplinary Nonlinear Dynamics			
451	Applied Molecular Modeling			
462	Viscoelasticity and Flow in Polymer Systems			11 MTWF <b>Burghardt</b>
463	Polymerization Reaction Engineering			
472	Interfacial Phenomena and Bionanotechnology			
475	Cell-Material Interactions	4-5:50 MW <b>Shea</b>		
477	Bioseparations			10 MTWF <b>Kourkine</b>
478	Advances in Biotechnology			12-1:50 W 1-1:50 F <b>Shea</b>
479	Cell Culture and Ex Vivo Tissue Engineering	12:30-1:50 TTh <b>Miller</b>		
489	Selected Topics in Chemical Engineering	3 MTWF <b>Amaral<sup>4</sup></b>		

<sup>1</sup> Introduction to Differential Geometry

<sup>2</sup> Chemical Product Design

<sup>3</sup> Molecular Engineering and Statistical Mechanics

<sup>4</sup> Introduction to Computational Research