Chemical Engineering

Teaching Schedule, 2015-2016

CRSE	*COURSE TITLE*	*FALL*	*WINTER*	*SPRING*
		Time/Days Professor	Time/Days Professor	Time/Days Professor
190	Engineering of Chemical and Biological Processes			
210	Analysis of Chemical Process Systems	1 MTWF Lab 2-4, 4-6 M or 3-5T **Jewett**		10 MTWF Lab 12-2, 2-4, 4-6 M **Amaral**
211	Thermodynamics	1 MTWF **Kung**	1 MTWF **Snurr**	
212	Phase Equilibrium and Staged Separations		1 MTWF **Leonard**	2 MTWF **Broadbelt**
275	Molecular and Cell Biology for Engineers		3-4:50 TTh **Stringer**	
307	Kinetics and Reactor Engineering			10 MTWF **Torkelson** 1 MTWF **Bagheri**
312	Probability and Statistics for Chemical Engineering		9 MTWF **Bagheri**	
321	Fluid Mechanics	2 MTWF **TBD**		
322	Heat Transfer		11 MTWF **You**	
323	Mass Transfer			3 MTWF Discussion 4-4:50 W **Dranoff**
330	Molecular Engineering and Statistical Mechanics			11 MTWF **Snurr**
341	Dynamics and Control of Chemical and Biological Processes		10 MTWF **Leonard**	
342	Chemical Engineering Laboratory	9-5:20 Th **Maher**	9-5:20 Th **Maher**	9-5:20 Th **Maher**
345	Process Optimization for Energy and Sustainability			4-5:50 TTh **Caracotsios**
351	Process Economics, Design, and Evaluation	12 MTWF **Cole**	12 MTWF **Cole**	
352	Chemical Engineering Design Projects		3-5:50 T **You/ Wegerer**	3-5:50 W **Kung/ Wegerer**
355	Chemical Product Design		2 MWF **Notestein**	
361	Introduction to Polymers	10 MTWF **Torkelson**		
364	Chemical Processing and the Environment			
365	Sustainability, Technology, and Society	3 MWF **Kung**		
367	Quantitative Methods in Life Cycle Analysis			
371	Transport Phenomena in Living Systems			

CRSE	*COURSE TITLE*	*FALL*	*WINTER*	*SPRING*
		Time/Days Professor	Time/Days Professor	Time/Days Professor
372	Bionanotechnology		2 MWF **Kourkine**	
375	Biochemical Engineering		9 MTWF **Jewett**	
377	Bioseparations			10 MTWF **Kourkine**
379	Computational Biology: Principles and Applications			9 MTWF **Leonard**
390	Personal and Organizational Effectiveness			
395	Special Topics in Chemical Engineering	3 MWF **Tyo**[1]	3-3:50 MW, 3-4:50 F **Ryskin**[2]	2-3:50 TF **Amaral**[5]
395	Special Topics in Chemical Engineering	11 MWF **Jewett**[3]		3:30-4:50 MW **Felse**[6]
395	Special Topics in Chemical Engineering	5:30-7:00 MW **Russin**[4]		
404	Advanced Thermodynamics		4-5:50 MW **TBD**	
406	Selected Topics in Thermodynamics			4-5:20 WF **Ryskin**
408	Chemical Engineering Kinetics and Reactor Design	9 MTWF **Notestein**		
409	Advanced Reactor Design			
410	Principles of Heterogeneous Catalysis		4-5:50 TTh **Abrevaya**	
421	Fluid Mechanics	4-5:20 MWF **Ryskin**		
422	Heat and Mass Transfer		11-11:50 MW 10-11:50 Th **Torkelson**	
438	Interdisciplinary Nonlinear Dynamics			
451	Applied Molecular Modeling			
462	Viscoelasticity and Flow in Polymer Systems			11 MTWF **Burghardt**
463	Polymerization Reaction Engineering			
475	Cell-Material Interactions			
477	Bioseparations			10 MTWF **Kourkine**
478	Advances in Biotechnology			12-1:50 W 1-1:50 F **Tyo**

[1] Biotechnology and Global Health (Fall Quarter – Prof. Tyo)
[2] Quantum Mechanics and Path Integrals (Fall Quarter – Prof. Ryskin)
[3] Principles of Synthetic Biology (Fall Quarter – Prof. Jewett)
[4] Practical Biological Imaging (with MBP, Winter Quarter – Prof. Russin)
[5] Networks (Spring Quarter – Prof. Amaral)
[5] Biotechnology Regulatory Science (Spring Quarter – Prof. Felse)

479	Cell Culture and Ex Vivo Tissue Engineering			
489	Selected Topics in Chemical Engineering			