Chemical Engineering

Teaching Schedule, 2018-2019

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 3-5 T **Tyo**		9 MTWF Lab 12-2, 2-4, or 4-6 M **Torkelson**
211	Thermodynamics	1 MTWF **Richards**	1 MTWF **Richards**	
212	Phase Equilibrium and Staged Separations		10 MTWF **Dallbauman**	2 MTWF **Leonard**
275	Molecular and Cell Biology for Engineers		2-3:50 TTh **Stringer**	
307	Kinetics and Reactor Engineering			10 MTWF **Kung** 1 MTWF **Broadbelt**
312	Probability and Statistics for Chemical Engineering		2-3:50 MW **Amaral**	
321	Fluid Mechanics	2 MTWF **Maher**		
322	Heat Transfer		11 MTWF **Wang**	
323	Mass Transfer			3 MTWF **Tyo**
330	Molecular Engineering and Statistical Mechanics		12 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		1 MTWF **Dallbauman**	
351	Process Economics, Design, and Evaluation	12 MTWF **Notestein**	12 MTWF **Cole**	
352	Chemical Engineering Design Projects		3-5:50 T **Dranoff/** **Wegerer**	3-5:50 W **Kung/** **Wegerer**
355	Chemical Product Design			11 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		3:30-4:50 TTh **Masanet**	
371	Transport Phenomena in Living Systems			
372	Bionanotechnology		4 MWF **Kourkine**	
CRSE	*COURSE TITLE*	*FALL*	*WINTER*	*SPRING*
		Time/Days Professor	Time/Days Professor	Time/Days Professor
373	Biotechnology and Global Health	3 MWF **Tyo**		
375	Biochemical Engineering		1 MTWF **Tullman-** **Ercek**	

376	Synthetic Biology			
377	Bioseparations			9 MTWF **Kourkine**
379	Computational Biology: Principles and Applications			
381	Practical Biological Imaging	Lec 5:30-6:20 T Lab 6:30-8:20 T or 5:30-7:20 W **Russin**		
382	Biotechnology Regulatory Science			6-7:50 MW **Felse**
390	Personal and Organizational Effectiveness			
395	Special Topics in Chemical Engineering	4-5:20 WF **Ryskin**[1] 2-3:20 TTh **Bagheri**[2]	2-3:20 TTh **Seitz**[3]	2-3:50 TTh **Lucks**[4] 4 MWF **Ryskin**[5] 2 MWF **Wang**[6] TBA **Bagheri**[7]
404	Advanced Thermodynamics		2-3:50 MW **Lucks**	
406	Selected Topics in Thermodynamics			4-5:20 TTh **Ryskin**
408	Chemical Engineering Kinetics and Reactor Design	11 MTWF **Seitz**		
409	Advanced Reactor Design			
410	Principles of Heterogeneous Catalysis			
421	Fluid Mechanics	2 MTWF **Wang**		
422	Heat and Mass Transfer		11 MW 10-11:50 Th **Torkelson**	
438	Interdisciplinary Nonlinear Dynamics			
451	Applied Molecular Modeling			
CRSE	***COURSE TITLE***	***FALL***	***WINTER***	***SPRING***
		Time/Days Professor	Time/Days Professor	Time/Days Professor
462	Viscoelasticity and Flow in Polymer Systems			11 MTWF **Burghardt**
463	Polymerization Reaction Engineering			
475	Cell-Material Interactions			
477	Bioseparations			9 MTWF **Kourkine**
478	Advances in Biotechnology			12-1:50 W 1-1:50 F **Miller**
479	Cell Culture and Ex Vivo Tissue Engineering			
489	Selected Topics in Chemical Engineering		12:30-1:50 TTh **Masanet**[8]	

[1] Quantum Mechanics and Path Integrals (Fall Quarter – Prof. Ryskin)
[2] Science Policy (Fall Quarter – Prof. Bagheri)
[3] Electrochemistry (Winter Quarter – Prof. Seitz)
[4] Advanced Principles of Biomolecular Engineering (Spring Quarter – Prof. Lucks)
[5] Transport Phenomena: Important Problems with Simple Solutions (Spring Quarter – Prof. Ryskin)
[6] TBD (Spring Quarter – Prof. Wang)
[7] Machine Learning (Spring Quarter – Prof. Bagheri)
[8] Sustainable Manufacturing (Winter Quarter, Prof. Masanet)