Chemical Engineering
Teaching Schedule, 2017-2018

CRSE	COURSE TITLE	FALL Time/Days Professor	WINTER Time/Days Professor	SPRING 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 **Amaral**		9 MTWF Lab 12-2, 2-4, or 4-6 M **Jewett**
211	Thermodynamics	1 MTWF **Tullman-Ercek**	1 MTWF **Masanet**	
212	Phase Equilibrium and Staged Separations		1 MTWF **Dallbauman**	2 MTWF **Dranoff**
275	Molecular and Cell Biology for Engineers		3-4:50 TTh **Stringer**	
307	Kinetics and Reactor Engineering			10 MTWF **Torkelson** 1 MTWF **TBD**
312	Probability and Statistics for Chemical Engineering		2-3:50 MW **Bagheri**	
321	Fluid Mechanics	2 MTWF **Burghardt**		
322	Heat Transfer		11 MTWF **Wang**	
323	Mass Transfer			3 MTWF **Tyo**
330	Molecular Engineering and Statistical Mechanics			
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 **Cole**	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			12 MWF **Kung**
367	Quantitative Methods in Life Cycle Analysis			11-12:20 MW **Masanet**
371	Transport Phenomena in Living Systems			

CRSE	COURSE TITLE	FALL Time/Days Professor	WINTER Time/Days Professor	SPRING Time/Days Professor
372	Bionanotechnology		2 MWF **Kourkine**	
373	Biotechnology and Global Health	3 MWF **Tyo**		

375	Biochemical Engineering		9 MTWF **Jewett**	
376	Synthetic Biology	9 MTWF **Jewett**		
377	Bioseparations			9 MTWF **Kourkine**
379	Computational Biology: Principles and Applications			10 MTWF **Leonard**
381	Practical Biological Imaging	5-5:50 M Lab M or W 6-7:50 **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]	2-3:50 TTh **Bagheri**[2] 1 MTWF **Tullman-Ercek**[3]	2-3:50 TTh **Lucks**[4]
404	Advanced Thermodynamics		MW 11-12:50 **Lucks**	
406	Selected Topics in Thermodynamics			4-5:20 WF **Ryskin**
408	Chemical Engineering Kinetics and Reactor Design	11 MTWF **Broadbelt**		
409	Advanced Reactor Design			
410	Principles of Heterogeneous Catalysis		4-5:50 TTh **Abrevaya**	
421	Fluid Mechanics	2 MTWF **Wang**		
422	Heat and Mass Transfer		4-5:20 MWF **Ryskin**	
438	Interdisciplinary Nonlinear Dynamics			
451	Applied Molecular Modeling		2 MTWF **Snurr**	
462	Viscoelasticity and Flow in Polymer Systems			
463	Polymerization Reaction Engineering			9 MF, 8:30-9:50 W **Torkelson**
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			

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[1] Quantum Mechanics and Path Integrals (Fall Quarter – Prof. Ryskin)
[2] TBD (Winter Quarter – Prof. Bagheri)
[3] Protein Engineering (Winter Quarter – Prof. Tullman-Ercek)
[4] Advanced Principles of Biomolecular Engineering (Spring Quarter – Prof. Lucks)