

Example Course Schedule: Dual Degree Program, BS Chem E/MS SSTP

Term: Fall 1		
Course Number & Title	CR	Prerequisite(s)
CHME-181 Chemical Engineering Insights I	1	
CHMG-141 General & Analytical Chemistry I	3	
CHMG-145 General Chemistry Lab I	1	
MATH-181 Calculus I	4	
Writing Seminar	3	
Foundational Elective	3	
Year 1	0	
Term credit total:	15	
Term: Fall 2		
Course Number & Title	CR	Prerequisite(s)
CHME-230 Chemical Process Analysis	3	MATH-182 or MATH-182A, CHMG-142
CHMO-231 Organic Chemistry I	3	CHMG-142
CHMO-235 Organic Chemistry Lab I	1	CHMG-146
MATH-231 Differential Equations	3	MATH-182
General Education: Perspectives #2	3	
General Education: Perspectives #3	3	
Co-Op Prep Course	0	
Term credit total:	16	
Term: Fall 3		
Course Number & Title	CR	Prerequisite(s)
CO-OP		
Term credit total:	0	
Term: Fall 4		
Course Number & Title	CR	Prerequisite(s)
CHME-350 Multiple Scale Material Science	3	CHME-310, CHMO-231, CHMO-235 CHMI-351, CHME-499
CHME-340 Reaction Engineering	4	CHME-230, CHME-310, MATH-231, CHME-499
CHME-302 Analytical Tech. for Chem E II	3	CHME-301, CHME-499
CHME-491 Chemical Engineering Processes Lab	2	CHME-340 (Co. Req.) CHME-391, CHME-499
GE Immersion #1	3	
PUBL-701 Graduate Policy Analysis	3	
Term credit total:	18	
Term: Fall 5		
Course Number & Title	CR	Prerequisite(s)
CHME-451 Analysis of Multi-Scale Processes	3	CHME-321, CHME-330, CHME-340, CHME-350
CHME-490 Design With Constraint	3	CHME-451 (Co.-Req.)
Policy Grad Elective 1	3	
CHME-401, System Dynamics and Control	3	CHME-302
PUBL-700 Readings in PP	3	
PUBL-703 Program Eval. and Research Design	3	
Term credit total:	18	

Term: Spring 1		
Course Number & Title	CR	Prerequisite(s)
CHME-182 Chemical Engineering Insights II	1	
CHMG-142 General & Analytical Chemistry II	3	CHMG-141
CHMG-146 General Chemistry Lab II	1	CHMG-145
PHYS-211 University Physics I	4	MATH-182 (Can be co-req.)
MATH-182 Calculus II	4	MATH-181
General Education: Perspectives #1	3	
Wellness	0	
Term credit total:	16	
Term: Spring 2		
Course Number & Title	CR	Prerequisite(s)
CHME-310 Applied Thermodynamics	3	CHME-230, MATH-231
CHME-320 Continuum Mechanics I	3	CHME-230, MATH-231, PHYS-211
CHME-391 Chemical Engineering Principles Lab	2	CHME-230, CHME-320 (Co. Req.)
CHMI-351 Inorganic Chemistry I	3	CHMG-142
MATH-221 Multivariable and Vector Calculus	4	MATH-182
Wellness	0	
Term credit total:	15	
Term: Spring 3		
Course Number & Title	CR	Prerequisite(s)
CHME-330 Mass Transfer Operations	3	CHME-230, CHME-310, MATH-231
CHME-321 Continuum Mechanics II	3	CHME-320
CHME-301 Analytical Tech. for Chem E I	3	Math 221, MATH-231
CHMA-231 Chem. Instrumental Analysis for Engineers	3	CHMG-142
General Education: Perspectives #4	3	
Free Elective	3	
Term credit total:	18	
Term: Spring 4		
Course Number & Title	CR	Prerequisite(s)
PHYS-212 University Physics II	4	PHYS-211, MATH-221 (can be co-req)
Professional Technical Elective	3	
General Education: Immersion #2	3	
Free Elective/PUBL-702 Grad Decision Analysis	3	
STSO-710 Science and Tech Policy Seminar	3	
Term credit total:	16	
Term: Spring 5		
Course Number & Title	CR	Prerequisite(s)
CHME-492 Advanced Design Capstone	3	CHME-490
Professional Technical Elective/Grad Policy Elective 2	3	
Professional Technical Elective/Grad Policy Elective 3	3	
General Education: Immersion #3	3	
PUBL-799 Thesis	6	
Term credit total:	18	

Counts Towards Both BS and MS
Counts Towards MS