Sample Schedule for Chemical Engineering & Engineering Design, Innovation & Entrepreneurship (EDIE)

Chemical Engineering

Chemical Engineering + EDIE

First Year			
Fall			Units
06-100	Introduction to Chemical Engineering		12
21-120	Differential and Integral Calculus		10
09-105	Introduction to Modern Chemistry 1		10
99-101	Computing @ Carnegie Mellon		3
76-xxx	Designated Writing/Expression Course		9
		Total:	44

First Year		
Fall		Units
Same		12
Same		10
Same		10
Same		3
Same	_	9
	Total:	44

		Total:	43
XX-XXX	Select one: PCC, SDM, I&I, W&E or GE		9
33-141	Physics I for Engineering and Physics Students		12
XX-XXX	Intro to Engineering (second intro)		12
21-122	Integration and Approximation		10
Spring			

	Total:	43
73-102	Principles of Microeconomics	9
Same		12
49-101	Intro to Engineering Design, Innovation & Entrepreneurship	12
Spring <i>Same</i>		10
Spring		

Second Ye	ar	
Fall		Units
06-222	Sophomore Chemical Engineering Seminar	1
06-223	Chemical Engineering Thermodynamics	12
09-106	Modern Chemistry II	10
39-210	Experiential Learning I	0
21-254	Linear Algebra and Vector Calculus for Engineers	11
XX-XXX	Computer Science/Physics II*	10
XX-XXX	Select once: PCC, SDM, I&I, W&E or GE	9

Second Ye	ar	
Fall		Units
same		1
Same		12
Same		10
Same		0
Same		11
Same		10
70-345 or	Business Presentations or Business Communications or Acting	9
70-340 or 70-350	for Business	



	Tota	al: 53			Total:	53
Spring			Spring			
06-261	Fluid Mechanics	9	Same			9
06-262	Mathematical Methods of Chemical Engineering	12	Same			12
09-221	Lab 1: Introduction to Chemical Analysis	12	Same			12
39-220	Experiential Learning II	0	Same			0
xx-xxx	Computer Science/Physics II*	10-12	Same			10-12
xx-xxx	Unrestricted Elective	9	49-206	Tech Business Planning (Mini 4)		4.5
			49-305	Customer Discovery (Mini 3)		4.5
	Tota	al: 52-54			Total:	52-54

Third Year			Third Yea	r		
Fall		Units	Fall			Units
06-322	Junior Chemical Engineering Seminar	2	Same			2
06-325	Numerical Methods and Machine Learning for Chemical Engineering	6	Same			6
06-326	Optimization Modeling and Algorithms	6	Same			6
06-323	Heat and Mass Transfer	9	Same			9
09-217/219	Organic Chemistry 1 or Modern Organic Chemistry	9-10	Same			9-10
39-310	Experiential Learning III	0	Same			0
06-310	Molecular Foundations of Chemical Engr	9				
XX-XXX	Unrestricted Elective	9	49-306	Engineering Design Methods (Mini 1)		4.5
			49-405	Leading Engineering Innovation Teams (Mini 2)		4.5
	Total:	50-51			Total:	50-51
Spring			Spring			
06-361	Unit Operations of Chemical Engineering	9	Same			9
06-363	Transport Process Laboratory	9	Same			9
06-364	Chemical Reaction Engineering	9	Same			9
XX-XXX	Advanced Chemistry Elective	9	Same			9
XX-XXX	Select one: PCC, SDM, I&I, W&E or GE	9	Same			9
XX-XXX	Unrestricted Elective	9	49-305	Tech Venture Marketing (Mini 3)		4.5



			49-406	Tech Venture Formation (Mini 4)	4.5
	Total:	54		Total:	54
Fourth Yea	ar		Fourth Yo	ear	
Fall		Units	Fall		Units
				Discipline-specific engineering design course - OR - Defer to	12
06-421	Chemical Process Systems Design	12		Spring Term	
			Same		9
06-423	Unit Operations Lab	9			
XX-XXX	Unrestricted Elective	9	49-420	EDIE Innovation Capstone	9
xx-xxx	Select one: PCC, SDM, I&I, W&E, OR GE (excluding categories fulfilled after 1st year)	9	Same		9
xx-xxx	Select one: PCC, SDM, I&I, W&E, OR GE (excluding categories fulfilled after 1st year)	9	Same		9
	Total:	48		Total:	48
Spring			Spring		
06-463	Chemical Product Design	9	Same		9
06-464	Chemical Engineering Process Control	9	Same		9
xx-xxx	Select one: PCC, SDM, I&I, W&E, OR GE (excluding categories fulfilled after 1st year)	9	Same		9
xx-xxx	Select one: PCC, SDM, I&I, W&E, OR GE (excluding categories fulfilled after 1st year)	9	Same		9
XX-XXX	Unrestricted Elective	9	49-421	EDIE Entrepreneurship Capstone	9
	Total:	45		Total:	45

