

Second Year (Sophomore)															
Semester I	Course		Title	LT	LB	CR	Prerequisite	Semester II	Course		Title	LT	LB	CR	Prerequisite
	CHEM	1401	General Chemistry I	3	2	4			CHEM	1402	General Chemistry II	3	2	4	CHEM 1401
	MATH	2403	Calculus II	4	0	4	MATH 1303		UNIV	0XXX	University Elective Course III	2	0	2	
	PHYS	1403	General Physics II	3	2	4	PHYS 1301		MATH	2305	Calculus III	3	0	3	MATH 2403
	BIOL	2350	Biology for Engineer	2	2	3			XXXX	XXXX	Free Elective	3	0	3	
	SSPA	1101	Health and Physical Education I	0	2	1			CSEN	2315	Introduction to Programming in Python and C	2	2	3	
	UNIV	0XXX	University Elective Course II	2	0	2			ENGL	2304	Academic and Professional Communication	3	0	3	ENGL 1602
				14	8	18						16	4	18	

Third Year (Middle)															
Semester I	Course		Title	LT	LB	CR	Prerequisite	Semester II	Course		Title	LT	LB	CR	Prerequisite
	CHEN	3301	Principles of Chemical Engineering	3	0	3	CHEM 1402		CHEN	3302	Chemical Engineering Thermodynamics I	3	0	3	CHEN 3301
	UNIV	0XXX	University Elective Course IV	2	0	2			MCEN	3403	Materials Science and Engineering	3	2	4	CHEM 1401 PHYS 1403 MATH 2403
	CHEN	3304	Particle Technology	3	0	3	PHYS 1403 CHEM 1401		CHEN	3403	Process Fluid Mechanics	3	2	4	CHEN 3301
	MATH	3310	Elements of Differential Equations	3	0	3	MATH 2305		UNIV	0XXX	University Elective Course V	2	0	2	
	CHEM	2403	Organic Chemistry I	3	2	4	CHEM 1402		MATH	3315	Introduction to Numerical Computing	3	0	3	MATH 2305 CSEN 2315
	DSEC	3316	Introduction to Data Science	3	0	3	CSEN 2315 MATH 2403		ISLM	0212	Intellectual Awareness	2	0	2	
				17	2	18				16	4	18			

Fourth Year (Junior)															
Semester I	Course		Title	LT	LB	CR	Prerequisite	Semester II	Course		Title	LT	LB	CR	Prerequisite
	CHEN	4405	Process Heat Transfer	3	2	4	CHEN 3302 CHEN 3403		CHEN	4407	Stagewise Separations	3	2	4	CHEN 4405 CHEN 4306
	CHEN	4306	Mass Transfer	3	0	3	CHEN 3403		CHEN	4309	Process Dynamics and Control	3	0	3	CHEN 4306
	CHEM	3431	Physical Chemistry II	3	2	4	CHEM 1402 CHEN 3302		CHEN	4310	Kinetics and Reactor Design	3	0	3	CHEN 4308 Co:CHEN 4309
	CSEN	4317	Introduction to Artificial Intelligence	3	0	3	DSEC 3316		CHEN	4111	Kinetics and Control lab	0	2	1	CHEN 4308 Co:CHEN 4309 Co:CHEN 4310
	CHEN	4308	Chemical Engineering Thermodynamics II	3	0	3	CHEN 3302		CHEN	4191	Senior Design Project I	1	0	1	Co: CHEN 4407 Co:CHEN 4310
	SSPA	1102	Health and Physical Education II	0	2	1	SSPA 1101		CHEN	XXXX	Chemical Engineering Elective I	3	0	3	
									CHEN	XXXX	Chemical Engineering Elective II	3	0	3	
				15	6	18					16	4	18		

Fifth Year (Senior)															
Semester I	Course		Title	LT	LB	CR	Prerequisite	Semester II	Course		Title	LT	LB	CR	Prerequisite
	CHEN	5683	Cooperative Work	0	0	6	CHEN 4407 ENGL 2304 Completion of 120 Cr.		CHEN	5313	Process Design and Economics	3	0	3	CHEN 4407 Co:CHEN 4310
									CHEN	5392	Senior Design Project II	1	4	3	CHEN 4191 CHEN 5683 Co:CHEN 5313
									CHEN	5212	Computer Aided Process Design LAB	1	2	2	CHEN 4407 Co: CHEN 4310
									CHEN	XXXX	Chemical Engineering Elective III	3	0	3	
									CHEN	XXXX	Chemical Engineering Elective IV	3	0	3	
									XXXX	XXXX	Free Technical Elective	3	0	3	
				0	0	6						14	6	17	

Total Credits	166
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