

CHEMICAL ENGINEERING General STD ORG SEQ

1 st Year	Session	Course	Course Name	SH	P: Prerequisite; C: Coreq; R: Recommend
	ALL	MATH:1550	Engineering Math I: Single Variable Calculus	4	P: MPT Level 3 score of 9 or higher or ALEKS score of 75 or higher
	F/S	ENGR:1100	Introduction to Engineering Problem Solving	3	
	ALL	CHEM:1110	Principles of Chemistry I	4	
	ALL	RHET:1030	Rhetoric	4	
	F	ENGR:1000	Engr Success for First Year Students	1	First Semester Standing
Total				16	
	ALL	MATH:1560	Engineering Math II: Multi-Variable Calculus	4	P: MATH 1550
	F/S	ENGR:1300	Introduction to Engineering Computing	3	C: MATH:1550
	ALL	PHYS:1611	Introductory Physics I	4	C: MATH:1550
	ALL	MATH:2550	Engineering Math III: Matrix Algebra	2	P: MATH:1550
	ALL	CHEM:1120	Principles of Chemistry II	4	P:CHEM:1100
	S	CBE:1000	CBE Departmental Seminar	1	
2nd Year				TOTAL	18
	ALL	MATH:2560	Engineering Math IV: Differential Equations	3	P:MATH:1560; MATH 2550
	ALL		General Education Component #1	3	
	ALL	ENGR:2110	Engineering Fundamentals I:Statics	2	P:MATH:1550 C:MATH1560; C:PHYS:1611
	ALL	ENGR:2120	Engineering Fundamentals II: Circuits	3	C:MATH:2560
	ALL	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3	P:CHEM:1110; PHYS:1611;C:MATH:1560
	ALL	CBE:2105	Process Calculations	3	P:MATH:1550
Total				17	
	S	CBE:3105	ChE Thermodynamics	3	P:ENGR:2130; C: CBE:2105
	S	CBE:3109	Fluid Flow	2	C:CBE:2105
	ALL	CHEM:2210	Organic Chemistry I	3	P:CHEM:1120
	ALL		General Education Component course	3	
	ALL	ENGR:2720	Material Science	3	P:CHEM:1110;C:MATH:1550
	ALL	STAT:2020	Statistics elective	3	
	F/S	CBE:3000	CBE Professional Seminar	1	P:CBE:2105
3rd Year				Total	18
	F	CBE:3XXX	Heat & Mass Transfer	3	P:CBE:3105; CBE:3109
	F	CBE:3125	Chemical Process Safety	3	P:CBE:3109; CBE:3115
	F	CBE:3XXX	Separations	3	
	ALL	CHEM:2220	Organic Chemistry II	3	P:CHEM:2210
	ALL	CHEM:2410	Organic Chemistry Laboratory	3	P:CHEM:2210 C:CHEM2220
	F/S	CBE:3000	CBE Professional Seminar	1	P:CBE:2105
Total				16	
	S	CBE:3120	Chemical Reaction Engineering	3	P:CBE:3XXX
	S	CBE:3155	Chemical Reaction Engineering/Separation Lab	3	P:CBE:3109; C:CBE:3120
	F/S		Elective focus area course	3	
	S	CBE:5205	Introduction to Biochemical Engineering	3	C:CBE:3120
	ALL		General Education Component course	3	
	F/S	CBE:3000	CBE Professional Seminar	1	P:CBE:2105
4th Year				Total	16
	F	CBE:4105	Process Dynamics & Control	3	P:CBE:3120
	F	CBE:4109	Chemical Engineering Process Design I	2	P:CBE:3120; CBE:31XX
	F	CBE:3150	Thermodynamics/Transport Laboratory	3	P:CBE:3105; CBE:3109; C:CBE:31XX R:Statistics Course
	ALL		Advanced chemistry elective	3	
	F/S		Elective focus area course	3	
	F/S		Elective focus area course	3	
	F/S	CBE:3000	CBE :Professional Seminar	1	P:CBE:2105
Total				18	
	S	CBE:4110	Chemical Engineering Process Design II	3	P:CBE:4109; R:CBE:4105; CBE:3125
	ALL		Advanced science elective	3	
	F/S		Elective focus area course	3	
	ALL		General Education Component course	3	
	ALL		General Education Component course	3	
	S	CBE:4195	Senior Enriching Activities Seminar	0	C:CBE:4110
Total				15	