Chemical Engineering Emphasis Outline

Fall Semester		Spring Semester	
Freshman			
ENGR120 Intro to Engineering & Design	2	ENGR180 Material Science	4
ENGR125 Engineering Graphics	3	MATH192 Calculus II	4
Math191 Calculus I	4	CHEM132 General Chemistry II	4
CHEM131 General Chemistry I	4	RELT100 God & Human Life	3
HLED120/FT Fit for Life/Fitness Activity	1	ENGR185 Engineering Statics	3
ENGL115 College Writing I	3		
	17		18
Sophomore			
ENGR225 Circuit Analysis	3	ENGR285 Engineering Dynamics	3
PHYS241 Physics for Scientists I	5	MATH286 Differential equations	3
MATH240 Calculus III	4	GEN ED Religion (RELB,RELG,RELT)	3
CHEM231 Organic Chemistry I	4	COMM104 Communication Skills	3
FTES Physical Fitness Activity	1	ENGR485 Community Service	2
		ENGR275 Electronics I	3
	17		17
Junior			
CPTR151 Computer Science I	3	ENGR310 Linear Systems Analysis	3
CHEM200 Quantitative Analysis	4	ENGR355 ChemE Lab	4
CHEM431 Physical Chem I	3	ENGR345* ChemE Fundamentals	3
ENGR464* Kinetics & Reactor Design	3	ENGR360 Fluid Dynamics	3
Gen ED History	3	ENGL220/EN Technical Writing/College Writing II	3
Cen 25 Instary	16	ENGLEZO, EN Technical Withing, contege Withing II	16
	10		10
Senior			
ENGR491 Review of Engineering Design	1	Elective ENGR Elective	3
ENGR450 Engineering Economy	2	ENGR492 Senior Design Project	3
ENGR410 Feedback Control Systems	4	ENGR440 Heat & Mass Transfer	3
ENGR480* Process Design	3	GEN ED Arts/Humanities	3
GEN ED Religion (RELB,RELG,RELT)	3	ENGR ENGR Elective	6
GEN ED Social Sciences	3	RELT340 Religion & Ethics in	3
	16		18
Offered every other year*			
Suggested 4-year course outline per Bulletin 2019-2020 Total Credits for Graduation			135