

## CHEMICAL ENGINEERING:

FRESHMAN YEAR		
FALL		
C&PE 111	Introduction to the Profession	2
CHEM 170	Chemistry for the Chemical Sciences I (KU CORE GE3N)	5
ENGL 101	Composition (KU CORE GE21)	3
MATH 121	Calculus I (KU CORE GE12)	5
		Total hours 15
SPRING		
C&PE 121	Intro. Computers Engineering	3
CHEM 175	Chemistry for the Chemical Sciences II	5
ENGL 102	Composition & Literature (KU CORE GE21)	3
MATH 122	Calculus II	5
		Total hours 16

SOPHOMORE YEAR		
FALL		
C&PE 211	Material & Energy Balances	3
CHEM 330	Organic Chemistry I	3
CHEM 331	Organic Chemistry I Lab	2
MATH 220	Applied Differential Equations*	3
MATH 290	Elementary Linear Algebra	2
PHSX 210	General Physics I for Engineers (KU CORE GE11)	3
PHSX 216	General Physics I Laboratory (KU CORE AE51)	1
		Total hours 17
SPRING		
C&PE 221	Chemical Engineering Thermodynamics I	3
PHSX 212	General Physics II	3
PHSX 236	General Physics II Laboratory	1
_____	Advanced Chemistry Elective	3
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
_____	Engineering Elective	3
		Total hours 16

## General w/ KU CORE†

JUNIOR YEAR		
FALL		
C&PE 511	Momentum Transfer	3
C&PE 512	Chemical Engineering Thermodynamics II	3
C&PE 522	Economic Appraisal of C&PE Projects (KU CORE AE51)	2
CHEM 530	Physical Chemistry I	3
_____	MSEHS Elective*	3
_____	Engineering Elective	3
		Total hours 17
SPRING		
C&PE 521	Heat Transfer	3
C&PE 523	Mass Transfer	4
C&PE 524	Chemical Engineering Kinetics & Reactor Design	3
CHEM 535	Physical Chemistry II	4
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
		Total hours 17

SENIOR YEAR		
FALL		
C&PE 613	Chemical Engineering Design I (KU CORE GE22 & AE61)	4
C&PE 615	Introduction to Process Dynamics and Control	3
C&PE 616	Chemical Engineering Laboratory I (KU CORE GE22)	3
_____	Engineering Elective	3
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
		Total hours 16
SPRING		
C&PE 623	Chemical Engineering Design II	2
C&PE 624	Plant & Environmental Safety (KU CORE AE51)	3
C&PE 626	Chemical Engineering Laboratory II (KU CORE GE22)	3
_____	Engineering Elective	3
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
		Total hours 14

† KU CORE: Learn more about the core at <http://kucore.ku.edu/>

\*Students that select both MATH 223 AND MATH 320 instead of MATH 220 do NOT require MSEHS elective.

128 credit hours maximum required for graduation.

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