

CHEMICAL ENGINEERING: General w/ KU CORE† 2017-2018

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 125	Calculus I (KU CORE GE12)	4
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
		Total hours 17
SPRING		
CHEM 175	Chemistry for the Chemical Sciences II	5
ENGL 102	Composition & Literature (KU CORE GE21)	3
MATH 126	Calculus II	4
PHSX 210	General Physics I for Engineers (KU CORE GE11)	3
PHSX 216	General Physics I Laboratory	1
		Total hours 16

SOPHOMORE YEAR		
FALL		
C&PE 211	Material & Energy Balances	4
CHEM 330	Organic Chemistry I	3
CHEM 331	Organic Chemistry I Lab	2
PHSX 212	General Physics II	3
MATH 220	Applied Differential Equations	3
MATH 290	Elementary Linear Algebra	2
		Total hours 17
SPRING		
C&PE 221	Chemical Engineering Thermodynamics I	3
C&PE 325	Numerical Methods and Statistics	3
MATH 127	Calculus III	4
PHSX 236	General Physics II Laboratory	1
_____	Engineering Elective	3
_____	Advanced Science Elective	3
		Total hours 17

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 525	Physical Chemistry for Engineers	4
_____	Engineering Elective	3
		Total hours 15
SPRING		
C&PE 521	Heat Transfer	3
C&PE 523	Mass Transfer	4
C&PE 524	Chemical Engineering Kinetics & Reactor Design	3
_____	Advanced Science Elective	3
_____	KU CORE ELECTIVE (GE3S, GE3H, AE41, or AE42)	3
		Total hours 16

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

128 credit hours required for graduation
Options in Chemical Engineering may increase total hours required
Revised March 2017 (SMW)

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