University of Iowa- College of Engineering & Iowa Central Community College



		CHEMICAL ENGINEERII	NG	Gene	eral MA	AJ ORG SEQ	
	UI Course #	University of Iowa Course Title	SH		ICCC Cours	e # lowa Central CC Course Title	SI
emester :	1						
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Introduction to Engineering Problem Solving	3		No equivalent course offered		
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	ALL	ENG 105	Composition I	3
					ENG 106	Composition II	**
					SPC 112	Public Speaking	3
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered		
		Total	16				
emester :	2						
	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent	No equivalent course offered	
	ENGR:1300	Introduction to Engineering Computing	_	CHOOSE 4	CIS 172	Java	4
Spring			3	CHOOSE 1	CIS 162	C++	4
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	Ę
	CHEM:1120	Principles of Chemistry II	4		CHM 175	General Chemistry II	4
	CBE:1000	CBE Departmental Seminar	1		No equivalent course offered		
		Total	18				
emester :	3						
	MATH2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3
Fall		General Education Component #1	3				
	ENGR:2110	Engineering Fundamentals I – Statics	2		No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered		
	CHEM:2230	Organic Chemistry I For Majors	3		CHM 261	Organic Chemistry I	4
	CBE:2105	Process Calculations	3		No equivalent course offered		
		Total	17				
emester 4	4						
Spring	CBE:3105	ChE Thermodynamics	3		No equivalent course offered		
	CBE:3109	Fluid Flow	2		No equivalent course offered		
	CHEM:2240	Organic Chemistry II for Majors	3		CHM 271	Organic Chemistry II	4
	CHEM:2420	Organic Chemistry Lab for Majors	3		Satisfied with CHM 261 & CHM 271 (short 1 s.h.)		
	STAT:2020	Elective #1: Prob & Stats for Engr & Phys Sci	3		No equivalent course offered		
	CBE:3000	CBE Professional Seminar	1		No equivalent course offered		
		General Education Component #2	3				
		Total	18				

	UI Course	# University of Iowa Course Title	SH	ICCC Course # Iowa Central CC Course Title	SH
emester!	5				
	CBE:3113	Heat & Mass Transfer	3	No equivalent course offered	
	CBE:3125	Chemical Process Safety	3	No equivalent course offered	
	CBE:3117	Separations	3	No equivalent course offered	
Fall	ENGR:2720	Material Science	3	No equivalent course offered	
	ENR:2120	Engineering Fundamentals II: Electrical Circuits	3	No equivalent course offered	
	CBE:3000	CBE Professional Seminar	1	No equivalent course offered	
		Total	16		
emester (6				
	CBE:3120	Chemical Reaction Engineering	3	No equivalent course offered	
	CBE:3155	Chemical Reaction Engineering/Separation Lab	3	No equivalent course offered	
Spring	CBE:5205	Introduction to Biochemical Engineering	3	No equivalent course offered	
		Elective #2: Engineering Elective	3	No equivalent course offered	
		General Education Component #3	3		
	CBE:3000	CBE Professional Seminar	1	No equivalent course offered	
		Total	16		
emester	7				
	CBE:4105	Process Dynamics & Control	3	No equivalent course offered	
	CBE:4109	Chemical Engineering Process Design I	2	No equivalent course offered	
Fall	CBE:3150	Thermodynamics/Transport Laboratory	3	No equivalent course offered	
		Advanced Chemistry Elective	3		
		Elective #3: Additional Elective	3		
		Elective #4: Additional Elective	3		
	CBE:3000	CBE :Professional Seminar	1	No equivalent course offered	
		Total	18		
mester	8				
	CBE:4110	Chemical Engineering Process Design II	3	No equivalent course offered	
		Advanced Science Elective	3	No equivalent course offered	
		Elective #5: Additional Elective	3		
Spring		General Education Component #4	3		
		General Education Component #5	3		
	CBE:4195	Senior Enriching Activities Seminar	0	No equivalent course offered	
		Total	15		

2017-2021 Curriculum updated June 2018

^{* 1}sh; does not count toward 128 sh total required for graduation

^{**}Students must have completed Calculus I, II, and III to receive credit for Engineering Math II