University of Iowa - College of Engineering & Des Moines Area Community College



		Chemica	l Er	ngineer	ring			
	UI Course #	University of Iowa Course Title	SH		DMACC Course #	DMACC Course Title	S	
mester :	1							
	MATH:1550	Engineering Math I – Single Variable Calculus	1	DOTU	MAT 211	Calculus I		
			4	ВОТП	MAT 217	Calculus II		
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 166	Engineering Graphics/Conceptual Design		
Fall	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General/Inorganic Chemistry I		
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2,			ENG 105	Composition I		
			١.	CHOOSE 1	ENG 106	Composition II		
		and a single Speech Component all required)	4	CHOOSE 1	ENG 108	Composition II: Technical Writing		
					SPC 101	Fundamentals of Oral Communication		
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent cou	equivalent course offered		
		Total	16					
nester :	2							
	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III		
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 148	Linear Algebra w/ Applications		
		Introduction to Engineering Computing			CIS 161	C++		
				CHOOSE 1	CIS 169	C#		
	ENGR:1300		3		CIS 171	Java		
pring					CIS 125	Intro to Programming Logic		
-1 0				OR BOTH	EGR 155	Engineering C/C++		
	PHYS:1611	Introductory Physics I	4		PHY 213	Classical Physics I		
	CHEM:1120	Principles of Chemistry II	4		CHM 175	General/Inorganic Chemistry II		
	CBE:1000	CBE Departmental Seminar	1		No equivalent course offered			
		Total	18		<u> </u>			
nester :	3							
	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace		
		General Education Component #1	3					
	ENGR:2110	Engineering Fundamentals I:Statics	A	o				
Fall	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		MAT 211 Calculus I MAT 217 Calculus II EGR 166 Engineering Graphics/Conceptual De CHM 165 General/Inorganic Chemistry I ENG 105 Composition II ENG 108 Composition II: Technical Writing SPC 101 Fundamentals of Oral Communication No equivalent course offered MAT 219** Calculus III MAT 148 Linear Algebra w/ Applications CIS 161 C++ CIS 169 C# CIS 171 Java CIS 125 Intro to Programming Logic EGR 155 Engineering C/C++ PHY 213 Classical Physics I CHM 175 General/Inorganic Chemistry II No equivalent course offered MAT 227 Differential Equations with Laplace EGR 180 Statics No equivalent course offered CHM 263 Organic Chemistry I No equivalent course offered No equivalent course offered No equivalent course offered No equivalent course offered No equivalent course offered CHM 273 Organic Chemistry II Satisfied by CHM 263 & CHM 273 No equivalent course offered	urse offered		
	CHEM:2230	Organic Chemistry I For Majors	3		CHM 263	Organic Chemistry I		
	CBE:2105	Process Calculations	3		No equivalent cou	lo equivalent course offered		
		Total	17					
nester 4	4							
	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 273 Organic Chemistry II			
'neir-	CHEM:2420	Organic Chemistry Lab for Majors	3		Satisfied by CHM 263 & CHM 273			
Spring	STAT:2020	Prob & Stats for Engr & Phys Sci (Statistics Elective)	3		No equivalent course offered			
	CBE:3000	Professional Seminar: Chemical Engineering	1		No equivalent course offered			
		General Education Component #2	3					
		Total	18					

emester	5			
	CBE:3113	Heat and Mass Transfer	3	No equivalent course offered
	CBE:3125	Chemical Process Safety	3	No equivalent course offered
	CBE:3117	Separations	3	
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	15	
emester	6			
	CBE:3120	Chemical Reaction Engineering	3	No equivalent course offered
	CBE:3155	Chemical Reaction Engineering/Separation Lab	2	No equivalent course offered
	CBE:5205	Introduction to Biochemical Engineering	3	No equivalent course offered
Spring		Elective Focus Area course	3	
		General Education Component #3	3	
	CBE:3000	CBE Professional Seminar	1	No equivalent course offered
		Total	15	
emester '	7			
	CBE:4105	Process Dynamics & Control	3	No equivalent course offered
	CBE:4109	Chemical Engineering Process Design I	2	No equivalent course offered
	CBE:3150	Thermodynamics/Transport Laboratory	3	No equivalent course offered
Fall		Advanced Chemistry Elective	3	No equivalent course offered
ran		Elective Focus Area course	3	
		Elective Focus Area course	3	
	CBE:3000	CBE:Professional Seminar	1	No equivalent course offered
		Total	17	
emester	8			
	CBE:4110	Chemical Engineering Process Design II	3	No equivalent course offered
Spring		Advanced Science Elective	3	No equivalent course offered
		Elective Focus Area course	3	
		General Education Component #4	3	
		General Education Component #5	3	
	CBE:4195	Senior Enriching Activities Seminar	0	No equivalent course offered
		Total	15	

2016-2018 Curriculum updated May 2018

st 1sh; 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