

Chemical Engineering

	UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	3
	CHEM:1110	Principles of Chemistry I	4	BOTH	CHM 157	Principles of Chemistry I	3
					CHM 158	Principles of Chemistry II	3
					OR	CHM 166	General Chemistry I
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	CHOOSE 1	ENG 105	Composition I (Writing Component I)	3
					ENG 106	Composition II (Writing Component II)	3
SPC 101					SPC 101: Fundamentals of Oral Communication (Speech Component)	3	
				SPC 112	SPC 112: Public Speaking (Speech Component)	3	
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
	Total	16					
Semester 2							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III – Matrix Algebra	2		EGR 162	Engineering Math - Matrix Algebra	2
	ENGR:1300	Engineering Problem Solving II	3	CHOOSE 1	EGR 165	Engineering II	3
					CIS 171	Java	3
					CIS 169	C#	3
	PHYS:1611	Introductory Physics I with Lab	4	BOTH	PHY 200	Classical Physics I	3
					PHY 201	Classical Physics II	3
	CHEM:1120	Principles of Chemistry II & Lab	4	BOTH	CHM 158	Principles of Chemistry II	3
					CHM 159	Principles of Chemistry III	4
					OR	CHM 176	General Chemistry II
CBE:1000	CBE Departmental Seminar	0		No equivalent course offered			
	Total	17					
Semester 3							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3
		General Education Component #1	3				
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
	CHEM:2230	Organic Chemistry I For Majors	3	BOTH	CHM 251	Organic Chemistry I	3
					CHM 252	Organic Chemistry II	3
	CBE:2105	Process Calculations	3		No equivalent course offered		
	Total	17					
Semester 4							
Spring	CBE:3105	ChE Thermodynamics	3		No equivalent course offered		
	CBE:3109	Fluid Flow	2		No equivalent course offered		
	CHEM:2240	Organics Chemistry II for Majors	3	BOTH	CHM 252	Organic Chemistry II	3
					CHM 253	Organic Chemistry III	3
	CHEM:2420	Organic Chemistry Lab for Majors	3		Satisfied with CHM 251, CHM 252, CHM 253		
	STAT:2020	Elective #1: Prob & Stats for Engrg & Phys Sci	3		No equivalent course offered		
	CBE:3000	CBE Professional Seminar	1		No equivalent course offered		
		General Education Component #1	3				
	Total	18					

Chemical Engineering

	UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH
Semester 5							
Fall	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		
	ENGR:2720	Materials Science	3		No equivalent course offered		
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 284	Intro to Electrical Circuits	3
	CBE:3000	CBE Professional Seminar	1		No equivalent course offered		
		Total	16				
Semester 6							
Spring	CBE:3120	Chemical Reaction Engineering	3		No equivalent course offered		
	CBE:3155	Chemical Reaction Engineering/Separation Lab	2		No equivalent course offered		
	CBE:5202	Introduction to Biochemical Engineering	3		No equivalent course offered		
		Elective Focus Area course	3				
		General Education Component #3	3				
	CBE:3000	CBE Professional Seminar	1		No equivalent course offered		
		Total	15				
Semester 7							
Fall	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		
		Advanced Chemistry Elective	3		No equivalent course offered		
		Elective Focus Area course	3				
		Elective Focus Area course	3				
	CBE:3000	CBE :Professional Seminar	1		No equivalent course offered		
		Total	18				
Semester 8							
Spring	CBE:4110	Chemical Engineering Process Design II	3		No equivalent course offered		
		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				

2017-18 Curriculum

updated June 2018

* 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