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



College of Engineering

		Civil En	gin	eering				
	UI Course #	University of Iowa Course Title	SH		ILCC Cours	e Iowa Lakes Course Title	SH	
Semester	1							
			4		MAT 211	Calculus I	5	
	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 217	Calculus II	5	
	ENGR:1100	Engineering Problem Solving I	3		No equivalent course offered			
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 166	CHM 166 General Chemistry I 5		
Fall					ENG 105	Composition I	3	
Fall	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2,	4		ENG 106	Composition II	3	
	KHE1:1030	and a single Speech Component all required)	4	CHOOSE 1	SPC 112	Public Speaking	3	
					SPC 101	Fund. Of Oral Communication	3	
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
		Total	16					
Semester	2			_				
	MATH:1560	Engineering Math II – Multivariable Calculus	4		Mat 218**	Calculus III	3	
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equival	ent course offered		
	ENGR:1300	Engineering Problem Solving II		CHOOSE 1	CIS 171	Java	3	
Spring					CIS 162	C++	4	
Spring					CIS 161	C++	3	
	PHYS:1611	Introductory Physics I with Lab		Classical Physics I	5			
		General Education Component #1	3					
		Total	16					
Semester	3							
	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace Transforms	4	
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II		
	ENGR:2110	Engineering Fundamentals I:Statics	2		EGT 139	Statics Engineering 3		
Fall	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivalent course offered			
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered			
	CEE:1030	Intro to Earth Science (No Lab Required)	18		No equivalent course offered			
		Total	17					
Semester								
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered			
	ENGR:2710	Dynamics	3	 	· · ·	lent course offered		
Carrier	ENGR:2750	Mechanics of Deformable Bodies	3		No equivalent course offered			
Spring	CEE:2010	CEE Professional Practice and Ethics	1		No equivalent course offered			
	CEE:3763	Principles of Transportation	3		No equivalent course offered			
		General Education Component #2	3					
		Total	16					

Civil Engineering										
	UI Course #	University of Iowa Course Title	SH	ILCC Course Iowa Lakes Course Title	SF					
emeste	r 5									
Fall	CEE:2015	Civil Engineering Tools	2	No equivalent course offered						
	CEE:3530	Geomechanics	4							
	CEE:3533	Principles of Structural Engineering	4	No equivalent course offered						
	ENGR:2510	Fluid Mechanics	4	No equivalent course offered						
		Elective Focus Area #1	3							
	CEE:3001	Leadership Seminar	1	No equivalent course offered						
		Total	18							
emeste	r 6									
Spring	CEE:3155	Principles of Environmental Engineering	4	No equivalent course offered						
	CEE:3371	Principles of Hydraulics and Hydrology Engin	3	No equivalent course offered						
	CEE:3586	Civil Engineering Materials	3	No equivalent course offered						
		Elective Focus Area #2	3							
		General Education Component #3	3							
	CEE:3002	Technical Communication in CEE	1	No equivalent course offered						
		Total	17							
emeste	r 7									
Fall		CEE Design Course	3	No equivalent course offered						
		CEE Design Course	3	No equivalent course offered						
		Elective Focus Area #3	3							
		Elective Focus Area #4	3							
		General Education Component #4	3							
	CEE:3003	Project Management Skills	1	No equivalent course offered						
		Total	16							
emeste	r 8									
Spring	CEE:3084/4850	Project Design & Management in Civil Engr	3	No equivalent course offered						
		Elective Focus Area #5	3							
		Elective Focus Area #6	3							
		Elective Focus Area #7	3							
		General Education Component #5	3							
		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