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

THE UNIVERSITY OF IOWA
College of Engineering

Civil Engineering

	UI Course #	University of Iowa Course Title	SH		EICC Course #	Eastern Iowa CC District 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	Introduction to Engineering Problem Solving	3		EGR 160	Engineering I	3
	CHEM:1110	Principles of Chemistry I & Lab	4	**CHOOSE 1**	CHM 165	General Chemistry I	4
					CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	**CHOOSE 1**	ENG 105	Composition I	3
					ENG 107	Composition I:Technical Writing	3
				CHOOSE 1	ENG 106	Composition II	3
					ENG 108	Composition II:Technical Writing	3
					SPC 112	Public Speaking	3
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered		
		Total	**16**				
Semester 2							
Spring	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Introduction to Engineering Computing	3	**CHOOSE 1**	CIS 171	Java	3
					CIS 172	Java	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
		General Education Component #1	3				
		Total	**16**				
Semester 3							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace	4
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II	5
	ENGR:2110	Engineering Fundamentals I:Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 285	Introduction to Electrical Science	3
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
	CEE:1030	Introduction to Earth Science (no lab required)	3		No equivalent course offered		
		Total	**18**				
Semester 4							
Spring	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered		
	ENGR:2710	Dynamics	3		EGR 280	Dynamics	3
	ENGR:2750	Mechanics of Deformable Bodies	3		EGR 380	Mechanics of Deformable Bodies	3
	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**				

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Semester 5							
Fall	CEE:2015	Civil Engineering Tools	2		No equivalent course offered		
	CEE:3530	Geomechanics	4		No equivalent course offered		
	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 Skills for Engineers	1		No equivalent course offered		
		Total	**18**				
Semester 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**				
Semester 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**				
Semester 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