University of Iowa - College of Engineering &
Kirkwood Communtiy College

THE UNIVERSITY OF IOWA
College of Engineering

Computer Science and Engineering							
	UI Course #	**University of Iowa Course Title**	**SH**		**KCC Course #**	**Kirkwood 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:1300	Engineering Problem Solving II	3	**CHOOSE 1**	CIS 171	Java Programming I	3
					CIS 175	Java Programming II	3
					EGR 167	Engineering II	4
					CSC 142	Computer Science	4
	CHEM:1110	Principles of Chemistry I	4		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Choose one in each section: Writing Component 1, Writing Component 2, Speech Component)	4		ENG 105	Composition I (Writing Component I)	3
				CHOOSE 1	ENG 106	Composition II (Writing Component II)	3
					ENG 108	Composition II: Tech (Writing Component II)	3
					ENG 120	College Writing (Writing Component II)	5
				CHOOSE 1	SPC 101	Fund. of Oral Comm. (Speech Component)	3
					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: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	CS:1210	Computer Science I: Fundamentals	4		CSC 142	Computer Science	4
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 149	Linear Algebra	3
		General Education Component #1	3				
		Total	**17**				
Semester 3							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations/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	4
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
		Total	**15**				
Semester 4							
Spring	CS:2210	Discrete Structures	3		MAT 150	Discrete Math	3
	ECE:2400	Linear Systems I	3		No equivalent course offered		
	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent course offered		
	ENGR:2730	Computers in Engineering	3		No equivalent course offered		
		General Education Component #2	3				
		Total	**16**				

Semester 5							
Fall	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered		
	ECE:3320	Intro to Digital Design	3		No equivalent course offered		
	CS:2230	Computer Science II, Data Structures	4		CSC 153	Data Structures	4
	ECE:3330	Introduction to Software Design	3		No equivalent course offered		
		General Education Component #3	3				
	ECE:3000	Professional Seminar	1		No equivalent course offered		
		Total	**17**				
Semester 6							
Spring	CS:3330	Algorithms	3		No equivalent course offered		
	ECE:3350	Computer Architecture and Organization	3		No equivalent course offered		
	ECE:3360	Embedded Systems and System Software	3		No equivalent course offered		
		Elective Focus Area #1	3				
		Elective Focus Area #2	3				
	CS:3820	Programming Language Concepts	3		No equivalent course offered		
		Total	**18**				
Semester 7							
Fall	ECE:4880	Principles of CSE Design	3		No equivalent course offered		
		Elective Focus Area #3 {technical, CS)	3		No equivalent course offered		
		Elective Focus Area #4 (technical, ECE)	3		No equivalent course offered		
	ECE:3540	Communication Networks	3		No equivalent course offered		
	CS:3620	Operating Systems	3		No equivalent course offered		
		General Education Component #4	3				
		Total	**18**				
Semester 8							
Spring	ECE:4890	Senior CSE Design	3		No equivalent course offered		
		Theory Elective: CS:4330 or CS:4350	3		No equivalent course offered		
		Elective Focus Area #4 (advanced CS)	3		No equivalent course offered		
		Elective Focus Area #5 (advanced ECE)	3		No equivalent course offered		
		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