University of Iowa - College of Engineering &
Kirkwood Communtiy College

THE UNIVERSITY OF IOWA
College of Engineering

Electrical Engineering- Electrical Track

	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 MAT 216	Calculus I AND Calculus II Calculus II	4 4
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	3
	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
	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
	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		No equivalent course offered		
		Total	**16**				
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	MATH:3550	Engineering Math V: Vector Calculus	3		No equivalent course offered
	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
	ECE:3400	Linear Systems II	3		No equivalent course offered
	ECE:3410	Electronic Circuits	3		No equivalent course offered
	ECE:3700	Electromagnetic Theory	3		No equivalent course offered
	ECE:3000	Professional Seminar: Electrical Engineering	1		No equivalent course offered
		Total	**16**		
Semester 6					
Spring	ECE:3500	Communication Systems	3		No equivalent course offered
	ECE:3600	Control Systems	3		No equivalent course offered
	ECE:3720	EE Materials and Devices	3		No equivalent course offered
		Elective Focus Area #1	3		
		Elective Focus Area #2	3		
		General Education Component #3	3		
		Total	**18**		
Semester 7					
Fall	ECE:4880	Principles of Electrical Engineering Design	3		No equivalent course offered
		Elective Focus Area #3	3		
		Elective Focus Area #4	3		
		Elective Focus Area #5	3		
		Track Breadth Elective	3		No equivalent course offered
		General Education Component #4	3		
		Total	**18**		
Semester 8					
Spring	ECE:4890	Senior Electrical Engineering Design	3		No equivalent course offered
		Track Depth Elective	3		No equivalent course offered
		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