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

THE UNIVERSITY OF IOWA
College of Engineering

Electrical Engineering – Computer Track

	UI Course #	University of Iowa Course Title	SH		ILCC Course #	Iowa Lakes Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	**BOTH**	MAT 211	Calculus I	5
					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	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4		ENG 105	Composition I	3
					ENG 106	Composition II	3
				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							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		Mat 218**	Calculus III	3
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Engineering Problem Solving II	3	**CHOOSE 1**	CIS 171	Java	3
					CIS 162	C++	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I with Lab	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 Transforms	4
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II	5
	ENGR:2110	Engineering Fundamentals I:Statics	2		EGT 139	Statics Engineering	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered		
		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				

Electrical Engineering – Computer Track

	UI Course #	University of Iowa Course Title	SH		ILCC Course #	Iowa Lakes Course Title	SH
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:2210	Discrete Structures	3			No equivalent course offered	
	ECE:3330	Introduction to Software Design	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	CS:2230	Computer Science II (EFA #1)	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 #2	3				
		Elective Focus Area #3	3				
		General Education Component #3	3				
		Total	**18**				
Semester 7							
Fall	ECE:4880	Principles of Electrical Engineering Design	3			No equivalent course offered	
	CS:3330	Algorithms	3			No equivalent course offered	
		Elective Focus Area #4	3				
		Track Breadth Elective	3			No equivalent course offered	
		General Education Component #4	3				
		Total	**15**				
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 #5	3				
		Elective Focus Area #6	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