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



College of Engineering

		Electrical Engineer	ing	– Ele	ctrical '	Track			
	UI Course #	University of Iowa Course Title	SH		1	Iowa Lakes Course Title	SH		
Semester 1									
	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	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		
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	2								
	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		CHOOSE 1	CIS 171	Java	3		
Spring			3		CIS 162	C++	4		
Spring					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	3								
	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace Transforms	5		
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II			
Fall	ENGR:2110	Engineering Fundamentals I:Statics	2		EGT 139	Statics Engineering	3		
i un	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivale	No equivalent course offered			
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivale	No equivalent course offered			
		Total	15						
Semester 4	ļ								
	MATH:3550	Engineering Math V: Vector Calculus	3		No equivalent course offered				
	ECE:2400	Linear Systems I	3		No equivale	No equivalent course offered			
Spring	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent course offered				
0	ENGR:2730	Computers in Engineering	3		No equivale	No equivalent course offered			
		General Education Component #2	3						
		Total	16						

	Electrical Engineering – Electrical Track									
	UI Course #	University of Iowa Course Title	SH	ILCC Course Iowa Lakes Course Title	SI					
emester	5									
	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						
Fall	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							
emester	6									
	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						
Spring		Elective Focus Area #1	3							
		Elective Focus Area #2	3							
		General Education Component #3	3							
		Total	18							
emester	7									
	ECE:4880	Principles of Electrical Engineering Design	3	No equivalent course offered						
		Elective Focus Area #3	3							
Fall		Elective Focus Area #4	3							
1 dii		Track Breadth Elective	3	No equivalent course offered						
		General Education Component #4	3							
		Total	15							
emester	8									
	ECE:4890	Senior Electrical Engineering Design	3	No equivalent course offered						
		Track Depth Elective	3	No equivalent course offered						
Spring		Elective Focus Area #5	3							
Spring		Elective Focus Area #6	3							
		General Education Component #5	3							
		Total	15							

2017-18 Curriculum

* 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

updated June 2018