## University of Iowa - College of Engineering & Indian Hills Community College



						Conege of Engineering		
		Electrical Enginee	rin	g- Con	nputer Tra	ack		
	UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH	
emester :	1			1				
	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	MAT 210	Calculus I	4	
					MAT 216	Calculus II	4	
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	3	
	CHEM:1110	Principles of Chemistry I	4	вотн	CHM 157	Principles of Chemistry I	3	
					CHM 158	Principles of Chemistry II	3	
				OR	CHM 166	General Chemistry I	5	
Fall					ENG 105	Composition I (Writing Component I)	3	
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4		ENG 106	Composition II (Writing Component II)	3	
				CHOOSE 1	SPC 101	SPC 101: Fundamentals of Oral Communication (Speech Component)	3	
					SPC 112	SPC 112: Public Speaking (Speech Component)	3	
	ENGR:1000	Engr Success for First-Year Students	1*		No equivalent co	urse offered		
		Total	16					
emester 2	2							
	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4	
	MATH:2550	Engineering Math III – Matrix Algebra	2		EGR 162	Engineering Math - Matrix Algebra	2	
	ENGR:1300	Engineering Problem Solving II	3		EGR 165	Engineering II	3	
				CHOOSE 1	CIS 171	Java	3	
Spring					CIS 169	C#	3	
	PHYS:1611	Introductory Physics I with Lab	4	вотн	PHY 200	Classical Physics I	3	
					PHY 201	Classical Physics II	3	
		General Education Component #1	3					
		Total	16				+	
emester 3	3							
	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3	
	PHYS:1612	Introductory Physics II	4		PHY 201	Classical Physics II	3	
				вотн	PHY 202	Classical Physics III	3	
Fall	ENGR:2110	Engineering Fundamentals I:Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 284	Intro to Electrical Circuits	3	
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3	
	LIVGIV.2130	Total	15		EGI 250	mermodynamics	Ť	
emester 4	1	Total	13					
emester s	MATH:3550	Engineering Math V: Vector Calculus	3		No equivalent co	ourses offered		
	ECE:2400	Linear Systems I	3		No equivalent courses offered			
	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent courses offered			
Spring	ENGR:2730	Computers in Engineering	3		No equivalent courses offered			
		General Education Component #2	3		equivalent co			
		Total	16					
		Total	10		L			

		Electrical Engin		,			I au
	UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH
emester 5						-	
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent courses offered		
	ECE:3320	Intro to Digital Design	3		No equivalent courses offered		
	CS:2210	Discrete Structures	3		No equivalent courses offered		
Fall	ECE:3330	Introduction to Software Design	3		No equivalent courses offered		
	ECE:3700	Electromagnetic Theory	3		No equivalent courses offered		
	ECE:3000	Professional Seminar: Electrical Engineering	1		No equivalent courses offered		
		Total	16				
emester 6	5						
	CS:2230	Computer Science II (EFA #1)	3		No equivalent courses offered		
	ECE:3350	Computer Architecture and Organization	3		No equivalent courses offered		
	ECE:3360	Embedded Systems and System Software	3		No equivalent co	ourses offered	
Spring		Elective Focus Area #2	3				
		Elective Focus Area #3	3				
		General Education Component #3	3				
		Total	18				
emester 7	7						
	ECE:4880	Principles of Electrical Engineering Design	3		No equivalent co	ourses offered	
	CS:3330	Algorithms	3		No equivalent co	ourses offered	
- "		Elective Focus Area #4	3				
Fall		Track Breadth Elective	3		No equivalent co	ourses offered	
		General Education Component #4	3				
		Total	15				
emester 8	3						
	ECE:4890	Senior Electrical Engineering Design	3		No equivalent co	ourses offered	
		Track Depth Elective	3		No equivalent co		
Spring		Elective Focus Area #5	3				
		Elective Focus Area #6	3				
		General Education Component #5	3				
		Total	15				

2017-18 Curriculum updated June 2018

<sup>\* 1</sup>sh; does not count toward 128 sh total required for graduation

<sup>\*\*</sup>Students must have completed Calculus I, II, and III to receive credit for Engineering Math II