

### Electrical Engineering – Electrical Track

	UI Course #	University of Iowa Course Title	SH		DMACC Course #	DMACC Course Title	SH	
<b>Semester 1</b>								
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 211	Calculus I	5	
					MAT 217	Calculus II	5	
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 166	Engineering Graphics/Conceptual Design	4	
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General/Inorganic Chemistry I	4	
	RHET:1030		Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	<b>CHOOSE 1</b>	ENG 105	Composition I	3
						ENG 106	Composition II	3
						ENG 108	Composition II: Technical Writing	3
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered				
	<b>Total</b>		<b>16</b>					
<b>Semester 2</b>								
Spring	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4	
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 148	Linear Algebra w/ Applications	4	
	ENGR:1300		Introduction to Engineering Computing	3	<b>CHOOSE 1</b>	CIS 161	C++	3
						CIS 169	C#	3
						CIS 171	Java	3
					<b>OR BOTH</b>	CIS 125	Intro to Programming Logic	3
						EGR 155	Engineering C/C++	2
PHYS:1611	Introductory Physics I	4		PHY 213	Classical Physics I	6		
	General Education Component #1	3						
	<b>Total</b>		<b>16</b>					
<b>Semester 3</b>								
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace	4	
	PHYS:1612	Introductory Physics II	4		PHY 223	Classical Physics II	6	
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3	No equivalent course offered				
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3	No equivalent course offered				
	<b>Total</b>		<b>15</b>					
<b>Semester 4</b>								
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					
	<b>Total</b>		<b>16</b>					

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	<b>16</b>	
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	<b>18</b>	
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	
		Track Breadth Elective	3	No equivalent course offered
		General Education Component #4	3	
		Total	<b>15</b>	
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	<b>15</b>	

2017-2018 Curriculum

updated May 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