

Electrical Engineering 5 Year Plan of Study for ROTC Students

First Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry <i>Co: MATH 1025 or MATH 1225</i>	3	ENGE 1216	Foundations of Engineering (C-) <i>Pre: ENGE 1215 (C-)</i>	2
CHEM 1045	General Chemistry Lab <i>Co: CHEM 1035</i>	1	ENGL 1106	First-Year Writing <i>Pre: ENGL 1105</i>	3
ENGE 1215	Foundations of Engineering (C-)	2	MATH 1226	Calculus of a Single Variable <i>Pre: MATH 1225 (C-)</i>	4
MATH 1225	Calculus of a Single Variable (C-) <i>Pre: Math Ready</i>	4	PHYS 2305	Foundations of Physics <i>Pre: (MATH 1205 or MATH 1205H or MATH 1225) or (MATH 1206 or MATH 1206H or MATH 1226); Co: 2325 or (MATH 1206 or MATH 1206H or MATH 1226)</i>	4
ENGL 1105	First-Year Writing	3			
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 18	Total Credit Hours		13 - 18

Second Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
MATH 2114	Intro. to Linear Algebra (C-) <i>Pre: MATH 1225 (B) or MATH 1226</i>	3	MATH 2214	Differential Equations (C-) <i>Pre: (1114 or 1114H or 2114 or 2114H), (1206 or 1226)</i>	3
PHYS 2306	Foundations of Physics (C-) <i>Pre: (MATH 1206 or MATH 1206H or MATH 1226), PHYS 2305</i>	4	ECE 2024	Circuits and Devices (C) <i>Pre: 1004, (MATH 2114 or MATH 2114H or MATH 2405H); Co: 2514, 2544, MATH 2214, PHYS 2306</i>	3 [F,S]
MATH 2204	Multivariable Calculus (C-) <i>Pre: MATH 1226</i>	3	ECE 2514	Computational Engineering (C) <i>Pre: 1004; Co: 2024, 2544</i>	3 [F,S]
ECE 1004	Intro to Concepts in ECE (C-) <i>Pre: ENGE 1215 or ENGE 1414</i>	3 [F,S]	ECE 2544	Fund. Of Digital Systems (C) <i>Pre: 1004, (ENGL 1106 or ENGL 1204H); Co: 2024, 2514</i>	3 [F,S]
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 17	Total Credit Hours		12 - 16

Third Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ECE 2214	Physical Electronics (C) <i>Pre: 2024</i>	3 [F,S]	STAT 4714	Probability & Statistics for Eng. (C-) <i>Pre: MATH 2204 or MATH 2224</i>	3
ECE 2564	Embedded Systems (C) <i>Pre: 2514, 2544</i>	3 [F,S]	ECE 3004	AC Circuit Analysis (C-) <i>Pre: 2074 or (2714, 2804)</i>	3 [F,S]
ECE 2714	Signals and Systems (C) <i>Pre: 2024, 2514, 2544, MATH 2214; Co: 2564</i>	3 [F,S]	ECE 3074	AC Circuit Analysis Lab (C-) <i>Pre: (2704 or 2804); Co: 3004</i>	1 [F,S]
ECE 2804	Integrated Design Project (C) <i>Pre: 2024, 2514, 2544; Co: 2214, 2564, 2714</i>	2 [F,S]	ECE 3105	Electromagnetic Fields (C-) <i>Pre: (2004 or (2214, 2804)), PHYS 2306, (MATH 2204 or MATH 2204H or MATH 2406H)</i>	3 [F,S]
				Pathways 2/7	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		11 - 17	Total Credit Hours		13 - 19

Fourth Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ECE 3704	Continuous & Discrete Sys. <i>Pre: 2704 or (2714, 2804)</i>	3 [F,S]	ECE 3304	Intro to Power Systems <i>Pre: 3004</i>	3 [F,S]
ECE 3106	Electromagnetic Fields <i>Pre: 3105</i>	3 [F,S]	ECE 3354	Electric Power Lab <i>Co: 3304</i>	1 [F,S]
ECE 3204	Analog Electronics <i>Pre: (2204, 2704), (2214, 2714, 2804)</i>	3 [F,S]	ECE 3614	Intro to Communication Systems <i>Pre: (2704 or (2714, 2804)), STAT 4714</i>	3 [F,S]
ECE 3274	Electronic Circuits Lab II <i>Pre: (2274 or 2804), 3074; Co: 3204</i>	1 [F,S]		Secondary Focus Area	3
	Pathways 2	3		Pathways 3	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 19	Total Credit Hours		13 - 19

Fifth Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ECE 4805	Senior Design Project (C-) <i>See Timetable for Prerequisites</i>	3 [F,S]	ECE 4806	Senior Design Project <i>Pre: 4805</i>	3 [F,S]
	Secondary Focus Area	3		Secondary Focus Area	3
	Math Elective	3		Pathways 6a	3
	Pathways 3	3		Free Elective	4
	ROTC	Varies		ROTC	Varies
Total Credit Hours		15 - 17	Total Credit Hours		13 - 15