

Electrical Engineering Sample 4-Year Plan

FIRST YEAR	Fall Term		Spring Term	
	Course	Hours	Course	Hours
All first-year students must take FUSE 101 in the fall semester and FUSE 102 in the spring semester.	FUSE 101 Frontiers	3	FUSE 102 Intersections	3
	MATH 231 Calculus I	4	MATH 232 Calculus II	4
	PHYS 211 General Physics I	5	PHYS 212 General Physics II	5
	EGRA 140 GraphComm & Basic Making	2	EGRA 160 Intro to Design	2
	EGRA 130 Intro to Microcontrollers	2	EGRA 123 MATLAB I	1.5
We assume one class overlap between a Fusion Exploration area and a class needed for a certificate.			EGRA 124 MATLAB II	1.5
	Total Hours		16	Total Hours
SOPHOMORE	Fall Term		Spring Term	
	Course	Hours	Course	Hours
If you are planning to attend graduate school AND planning to study abroad, it is optimal to study abroad during the summer term following either the sophomore or junior year.	MATH 326 Probability Theory	3	MATH 366 Differential Equations	3
	CHEM 121 or CHEM 131+131 L	5	EGRE 205 Circuits II	3
	EGRA 200 Circuits I	3	EGRE 235 Embedded Systems	3
	EGRE 230 Digital Logic and Verilog	3	CSCI 251 Intro to Computer Science*	4
	Fusion Course	3	Fusion Course	3
			Note: *This class counts towards Fusion Explorations #4 (Exploring the Natural World)	
Total Hours		17	Total Hours	

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JUNIOR	Fall Term		Spring Term	
	Course	Hours	Course	Hours
Students must officially declare a major by the time 60 hours are completed in order to continue registering.	MATH 233 Calculus III	4	EGRA 360 Junior Design	2
	EGRE 310 Signals & Systems	3	EGRA 320 Control Systems I	3
	EGRE 350 Electronics I	3	EGRE 355 Electronics II	3
	Fusion Explorations #2 ETHICS**	3	2 Business Short Courses	1
	2 Business Short Courses	1	2 Technical Short Courses	1
	2 Technical Short Courses	1	Fusion Course	3
			Fusion Course	3
	Notes:** Any ethics class that satisfies Fusion Explorations #2 (Ethics)			
	Total Hours	15	Total Hours	16
SENIOR	Fall Term		Spring Term	
	Course	Hours	Course	Hours
Expectant graduates must apply for graduation and meet with a representative in the Registrar's Office the semester prior to graduation.	EGRA 460 Capstone Design I	3	EGRA 465 Capstone Design II	3
	PHYS 411 Electricity and Magnetism I	3	EGRE 410 Communication Systems	3
	Electrical Engineering Elective	3	Electrical Engineering Elective	3
	1 Business Short Course	0.5	1 Business Short Course	0.5
	1 Technical Short Course	0.5	1 Technical Short Course	0.5
	Fusion Course	3	Fusion Course	3
	Fusion Course	3	Fusion Course	3
	Total Hours	16	Total Hours	16