

Electrical Engineering Sample 4-Year Plan

FIRST YEAR	Fall Term		Spring Term	
	Course	Hours	Course	Hours
<p>All first-year students must take FUSE 101 in the fall semester and FUSE 102 in the spring semester.</p> <p>We assume one class overlap between a Fusion Exploration area and a class needed for a certificate.</p>	FUSE 101 Frontiers	3	FUSE 102 Intersections	3
	MATH 229 Calculus A	4	MATH 231 Calculus I	4
	CHEM 131 Chemistry	5	PHYS 211 General Physics I	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
			EGRA 124 MATLAB II	1.5
Total Hours		16	Total Hours	
			17	

SOPHOMORE	Fall Term		Spring Term	
	Course	Hours	Course	Hours
<p>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.</p>	MATH 232 Calculus II	4	MATH 366 Differential Equations	3
	PHYS 212 General Physics II	5	EGRE 205 Circuits II	3
	EGRA 200 Circuits I	3	EGRE 235 Embedded Systems	3
	EGRE 230 Digital Logic and Verilog	3	Fusion Course	3
	Fusion Course	3	Fusion Course	3
Total Hours		18	Total Hours	
			15	

	Fall Term	Spring Term
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JUNIOR Students must officially declare a major by the time 60 hours are completed in order to continue registering.	Course		Hours	
	MA 326 Probability Theory	3	MA 233 Calculus III	4
	EGRA 320 Control Systems I	3	EGRA 360 Junior Design	2
	EGRE 350 Electronics I	3	EGRE 310 Signals and Systems	3
	Fusion Explorations #2 ETHICS	3	EGRE 355 Electronics II	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
	Total Hours		17	Total Hours

SENIOR	Fall Term		Spring Term	
	Course		Hours	
	EGRA 460 Capstone Design I	3	EGRA 465 Capstone Design II	3
	EGRE 430 Electromagnetics I	3	EGRE 431 Electromagnetics II	3
	EGRE 410 Communication Systems	3	Electrical Engineering Elective	3
	Electrical Engineering Elective	3	1 Business Short Course	0.5
	1 Technical Short Course	0.5	1 Technical Short Course	0.5
	1 Business Short Course	0.5	Fusion Course	3
	Fusion Course	3	Fusion Course	3
Total Hours		16	Total Hours	