

Mechanical 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	EGRM 240 Materials & Manufacturing	3
	EGRA 200 Circuits I	3	EGRM 230 Thermodynamics	3
	EGRM 220 Statics & Mech of Materials I	3	Fusion Course	3
	Fusion Course	3	Fusion Course	3
	Total Hours	18	Total Hours	15

Mechanical Engineering Sample 4-Year Plan

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 232 Linear Algebra	3	MATH 233 Calculus III	4
	EGRM 320 Statics & Mech of Materials II	3	EGRA 360 Junior Design	2
	EGRM 325 Dynamics	3	EGRM 350 Measurement Systems	3
	Fusion Explorations #2 ETHICS**	3	EGRM 330 Fluid Mechanics	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	17	Total Hours	17	

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
	EGRA 310 Control Systems I	3	EGRM 430 Heat Transfer	3
	EGRM 420 Matls & Machine Comp Des	3	Mechanical Engineering Elective	3
	Mechanical 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
Total Hours	16	Total Hours	16	