

CCP Pathway for a Major in Mechanical Engineering Academic Plan

Course		F-II - f		Credit	
Year	Number	Fall of Junior Year of High School		Hours	Units
	Gen Ed	Integrative Core - Foundation (H,A, or S)		4	1
1 EGE 110 CHE 120N		Intro to Engineering Profession		2	0.5
		Concepts in Chemistry		4	1
					2.5
Total		10			

Course	6 . fl . v fl:	Credit		
Number	Spring of Junior Year of Hig	Hours	Units	
XXX	Foreign Language (if needed) or Elective		4	1
MTH 141	Calculus I		4	1
EGE 130	Computer-Aided Design		2	0.5
				2.5
		Total	10	

Year	Course Number	Fall of Senior Year of High School		Credit Hours	Units	
	MTH 142 Calculus II		4		1	
PHY 10:	PHY 101N	Physics I		4		1
*						
					2	
			Total	8		

Course	Spring of Senior Year of High School		Credit	
Number			Hours	Units
Gen Ed	Integrative Core - Foundation (H,A, or S)		4	1
EGE 120	Intro to Engineering Design		2	0.5
XXX	Foreign Language (if needed) or Elective		4	1
				2.5
		Total	10	

Year	Course	Fall-Full-Time UMU Student		Credit	
Number				Hours	Earned
	FYS 100	Integrative Core - First-Year Seminar		4	
	PHY 102	Physics II		4	
1	1 MTH 241 Calculus III			4	
	EGE 210 Statics & Dynamics		4		
			Total	16	

Course	Spring-Full-Time UMU Student		Credit	
Number			Hours	Earned
	ntegrative Core - Foundation (H,A, or S)		4	
MTH 333	Linear Algebra and Differential Equations		4	
EGE 220	Thermodynamics & Fluid Mechanics I		4	
EME 230	Material Science		2	
EGE 240	Mechanics of Materials		4	
		Total	18	

Year Course Number		Fall-Full-Time UMU Student		Credit	
				Hours	Earned
	PHY 230V	Electronics - IC Explorations Values & Reasoning		4	
	EME 310	Kinematics and Dynamics of Machinery		4	
2	EME 320 Thermodynamics & Fluid Mechanics II			4	
	MGT 495	Project Management		2	
	EME 350	Manufacturing Science		2	
			Total	16	

Course	Spring-Full-Time UMU Student		Credit	
Number			Hours	Earned
EGE 320G	Global Engineering - IC Explorations Div. & Glob Learning		4	
EGE 310	Product Design and Development		4	
EME 330	Design of Machine Elements		4	
MTH 306	06 Prob. & Statistics for Engineers and Scientists		4	
		Total	16	

Course		Fall-Full-Time UMU Student		Credit	
Year	Number	raii-ruii-riirie divid student		Hours	Earned
	EME 480	Mechanical Engineering Capstone I		2	
3	EME 410	Control of Dynamic Systems		4	
3	EME 420 Mechanical Vibrations			4	
	EME 430	Heat Transfer		4	
			Total	14	

Course	Spring-Full-Time UMU S	Credit		
Number	Spring-Full-Time Olvio Student		Hours	Earned
EME 490	Mechanical Engineering Capstone II		4	
EME 4XY	Mechanical Engineering Technical Elective		2	
	Free Elective		2	
CAP 400	IC Capstone		4	
Total		12		

Total Credit Hours

Required Departmental Courses