Department of Mechanical Aerospace Engineering Suggested Program of Study Mechanical Engineering: 2015 - 2016

FIRST YEAR

Fall (12 credit hours, 14 contact hours) EGS 1006C Intro to the Engr Prof ENC 1101 English Composition I *CHS 1440 Principles of Chem/CHM 2045 w/lab *MAC 2311C Calc. I	1(1,2) 3(3,0) 4(3,1) 4(4,0)	Spring (15 credit hours, 19 contact hours) EGN 1007C Engr Concepts & Methods ENC 1102 English Composition II *MAC 2312 Calc. II *PHY 2048C Physics for Engineers I w/lab	1(1,2) 3(3,0) 4(4,0) 4(3,3) 3(3,0)	Summer (10 credit hours, 10 contact hours) *MAC 2313 Calc. III EGN 3365 Struct & Prop of Matis. (PR: CHS 1440 or CHM 2045, MAC 2312) Social Foundations	4(4,0) 3(3,0) 3(3,0)
			-(-,-)		
		SECOND YEAR			
Fall (13 credit hours, 15 contact hours)	0(0.0)	Spring (12 credit hours, 12 contact hours)	0(0.0)	Summer (9 credit hours, 9 contact hours)	0(0.0)
STA 3032 Probability & Statistics	3(3,0)	EML 3217 Engineering Analysis Dynamics	3(3,0)	ECO 2013 or ECO 2023 Economics	3(3,0)
(PR:MAC 2312)	2/2 0)	(PR: EGN 3310, MAC 2313, CR: MAP 2302)	2(2.0)	Cultural & History Foundations	3(3,0)
MAP 2302 Differential Equations	3(3,0)	EGN 3343 I nermodynamics	3(3,0)	Cultural & History Foundations	3(3,0)
(PR: MAC 2313)	4/2 2)	(CR: EML 3217, MAP 2302)	2(2.0)		
(DD: MAC 2212 DHV 2049C)	4(3,3)		3(3,0)		
(PR. MAC 2312, PH 2040C)	2/2 0)	(PR. EGN 5370, CR. MAP 2302)	2(2.0)		
(PR: MAC 2311C, PHY 2048C, CR: MAC 2312)	3(3,0)	(PR: PHY 2049C: CR: MAP 2302)	3(3,0)		
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		THIRD TEAK			
Fall (15 credit hours, 17 contact hours)		Spring (15 credit hours, 17 contact hours)		IMPORTANT NOTICES:	
EML 3034C Mod Met in MAE ¹	3(3,0)	EML 4225 Introduction to Vibrations & Controls	3(2,3)	* Grade of C or better is required in these c	ourses.
(PR: MAP 2302, CR: EML 3217, EML 3990)		(PR: EML 3217, EGM 3601, EML 3034C, EGN 3373)			
EML 3990 Career/Academic Advising I	0(0,0)	EML 4142 Heat Transfer	3(3,0)	¹ Grade of C or better is required in MAC	2311,
FML 2701 Eluid Machanical	2/2 0)	(PR: EML 3701, EML 3034C)	2(2.0)	MAC 2312, MAC 2313 and PH1 2046	
	3(3,0)	Approved Technical Elective	3(3,0)	Relded Courses should be taken in the tarm	
(PR. MAP 2302, EML 3217, EGN 3343)	3(2.3)	Approved Technical Elective	3(3,0)	noted as long as all prerequisites for that course	
(PR: EGN 3343 CP: EGM 3601)	5(2,5)	Cultural & History Foundations	5(5,6)	have been met	50013C
FMI 3500 Machine Design	3(3.0)			have been met.	
(PR: EGM 3601)	0(0,0)			Non-bolded course may be taken at any ti	me as
Science Foundation	3(3.0)			long as all prerequisites for that course	have
	-(-,-)			been met. Caution must be taken to ensu	re that
		FOURTH YEAR		you take courses in a proper sequence reg	garding
				prerequisites.	
Fall (15 credit hours, 19 contact hours)	0(4.0)	Spring (12 credit hours, 16 contact hours)	2(4.0)		
EML 4501C Engineering Design I	3(1,6)		3(1,6)		
(PR: EGN 3373, EML 3303C, EML 3701, EML 4142, FML 4225 CR: FML 4991)		(PR: EML 4501C, EML 4991)	2(2.0)	Please meet with your advisor if you have	e any
	0(0.0)	Approved Technical Elective	3(3,0)	questions regarding your schedule. Do no	at arop
EML 4991 Career/Academic Advising II	0(0,0)	Approved Technical Elective	3(3,0)	any course before discussing this action w	itri your
(PR. EML 3990, Department Approval)	2/2 0)	(See List Below)	3(3,0)	advisor. There may be alternative optio	115.
	3(3,0) 3(3,0)	(See List Below)		If you are not ready to begin the Calculus so	
Ontion Course (Choose 1 of 5)	3(3,0)			upon entry to the Mechanical Engineering of	rriculum
(See List Below)	3(3,0)			it is imperative that you meet with your ad	visor to
Ontion Course (Choose 1 of 5)	3(3.0)			nlan a personalized program of study. Math	nematice
(See List Below)	3(3,0)			and physics are corporationes of a qual	lity
1000 101 201011/				engineering program and it is important for	or vour
				academic career that you proceed accord	linalv.

ALL Mechanical Students Will Select 2 of 5 Courses (6 Credit Hours) :							
EML 3101: Thermodynamics of Mechanical Systems	3 (3,0)	OR	EML 4313 Intermediate System Dynamics & Controls	3(3,0)	OR		
(PR: EGN 3343) Spring Only			(PR: EML 3217, EML 4225) Fall Only				
EML 4504: Design & Analysis of Machine Components II 3(3,0)		OR	EML 4703: Fluids Mechanics II	3(3,0)	OR		
(PR: EML 3500 ; CR: EML 4535C) Spring Only			(PR: EML 3701) Fall Only				
EML 4143: Heat Transfer II	3(3,0)	OR					
(PR: EML 4142) Fall Only							

ALL Mechanical Students Will Select 1 of 2 Laboratory Courses (3 Credit Hours) : OR EML 4306C Energy Systems Lab 3(2,3) (PR: EML 3303C; CR: EML 414) Spring Only

EML 4301C Mechanical Systems Lab 3(2,3) (PR: EML 3303C, EGM 3601 ; CR: EML 4225) Spring Only

Revised: 3/9/2015