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

FIRST YEAR

Fall /10 are dishering 14 contest hours)		Continue (1F are discharge 10 agests at house)		Commence (10 area dit become 10 acceptant become)		
Fall (12 credit hours, 14 contact hours)	1/1 2\	Spring (15 credit hours, 19 contact hours)	1(1,2)	Summer (10 credit hours, 10 contact hours)	4(4.0)	
EGS 1006C Intro to the Engr Prof	1(1,2)	EGN 1007C Engr Concepts & Methods ENC 1102 English Composition II	3(3,0)	*MAC 2313 Calc. III w/ Analytic Geometry EGN 3365 Struct & Prop of Matls.	4(4,0)	
ENC 1101 English Composition I *CHS 1440 Principals of Chem/CHM 2045C w/lab	3(3,0) 4(3,1)	*MAC 2312 Calc. II w/ Analytic Geometry	4(4,0)	(PR: CHS 1440 or CHM 2045C & MAC 2312)	3(3,0)	
*MAC 2311C Calc. I w/ Analytic Geometry	4(4,0)	*PHY 2048C Physics for Engineers I w/lab	4(3,3)	Social Foundations	3(3,0)	
WAC 2311C Calc. I W/ Analytic Geometry	4(4,0)	SPC 1608 Oral Communications	3(3,0)	Social Foundations	3(3,0)	
		Si e 1000 Oral communications	-(-/-/			
		SECOND YEAR				
Fall (13 credit hours, 15 contact hours)		Spring (12 credit hours, 12 contact hours)		Summer (9 credit hours, 9 contact hours)		
STA 3032 Probability & Statistics	3(3,0)	EML 3217 Engineering Mechanics - Dynamics	3(3,0)	ECO 2013 or ECO 2023 Economics I or II	3(3,0)	
(PR :MAC 2312)		(PR: EGN 3310, MAC 2313 CR: MAP 2302)		Cultural & History Foundations	3(3,0)	
*MAP 2302 Differential Equations	3(3,0)	EGN 3343 Thermodynamics	3(3,0)	Cultural & History Foundations	3(3,0)	
(PR: MAC 2313)		(CR: EML 3217, MAP 2302)				
PHY 2049C Phys for Engr II w/ lab	4(3,3)	EGM 3601 Solid Mechanics ¹	3(3,0)			
(PR: MAC 2312, PHY 2048C)		(PR: EGN 3310, CR: MAP 2302)				
EGN 3310 Engr Analysis Statics	3(3,0)	EGN 3373 Principles of Electrical Engr	3(3,0)			
(PR: MAC 2311, PHY 2048C, CR: MAC 2312)		(PR: PHY 2049C; CR: MAP 2302)				
				¹ Grade of C or better is required in Calculus, MAC	2311, MAC :	
		THIRD YEAR				
Fall (15 credit hours, 18 contact hours)		Spring (15 credit hours, 17 contact hours)		IMPORTANT NOTICES:		
EML 3034C Modeling Methods in MAE ¹	3(3,1)	EML 4225 Introduction to Vibrations & Controls	3(3,0)	* Grade of C or better is required in these of	courses.	
(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 2311C,	MAC 2312	
(PR: MAP 2302)		(PR: EML 3701, EML 3034C)		MAC 2313, PHY 2048C, and CHS 1440/ CF	IM 2045	
EML 3701 Fluid Mechanics ¹	3(3,0)	Approved Technical Elective	3(3,0)			
(PR: MAP 2302, EML 3217, EGN 3343)		Approved Technical Elective	3(3,0)	Bolded Courses should be taken in the term	noted or in	
EML 3303C ME Engr Measurements	3(2,3)	Cultural & History Foundations	3(3,0)	a previous term if your schedule permits and as long as		
(PR: EGN 3343, CR: EGM 3601)				all prerequisites for that course have been	n met.	
EML 3500 Design and Analysis of Machine Comport (PR: EGM 3601)	nents 3(3,0)			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 insu	re that	
		FOURTH YEAR		you take courses in a proper sequence re	garding	
Fall (15 gradit hours, 10 contact hours)		Spring (12 gradit hours, 10 contact hours)		prerequisites.		
Fall (15 credit hours, 19 contact hours)	2/1 /)	Spring (12 credit hours, 18 contact hours)	2/1 /)			
EML 4501C Engineering Design I	3(1,6)	EML 4502C Engineering Design II (PR: EML 4501C, EML 4991)	3(1,6)	Please meet with your advisor if you hav	o any	
(PR: EGN 3373, EML 3303C, EML 3701, EML 4142, EM			3/2.0\	, , ,	,	
(CR: EML 4991) EML 4991 Career/Academic Advising II	0(0,0)	Approved Technical Elective	3(3,0) 3(2,3)	questions regarding your schedule. Do no	·	
(PR: EML 3990, Department Consent)	3(3,0)	Laboratory Course (Choose 1 of 2) (See List Below)	3(2,3)	any course before discussing this action w advisor. There may be alternative optic		
Approved Technical Elective	3(3,0)	Option Course (Choose 1 of 5)	3(3,0)	advisor. There may be alternative optic	nis.	
Approved Technical Elective	3(3,0)	(See List Below)	3(3,0)	If you are not ready to begin the Calculus se	equence	
Approved Technical Elective	3(3,0)	(See Elsi Below)		upon entry to the Mechanical Engineering c		
Option Course (Choose 1 of 5)	3(3,0)			it is imperative that you meet with your ad		
(See List Below)				plan a personalized program of study. Math		
(CCC Elst Dellow)				and physics are cornerstones of a qua		
				engineering program and it is important for	*	
				academic career that you proceed accord	-	
				academie career that you proceed accord		
				-		

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

ALL Mechanical Students Will Select 1 of 2 Laboratory Courses (3 Credit Hours):								
EML 4301C Mechanical Systems Lab	3(2,3)	OR EML 4306C Energy Systems Lab	3(2,3)					
(PR: EML 3303C, EGM 3601 ; CR: EML 4225)		(PR: EML 3303C; CR: EML 4142)						
Spring Only		Spring Only						