Department of Mechanical, Materials Aerospace Engineering
Suggested Program of Study
Aerospace Engineering **11-12**

FIRST YEAR

Fall (12 credit hours, 14 contact hours)		**Spring** (15 credit hours, 19 contact hours)		**Summer** (10 credit hours, 10 contact hours)	
EGN 1006 Intro to the Engr Prof	1(1,2)	**EGN 1007 Engr Concepts & Methods**	1(1,2)	***MAC 2313 Calc. III**	4(4,0)
ENC 1101 English Composition I	3(3,0)	ENC 1102 English Composition II	3(3,0)	EMA 3706 Struct & Prop of AE Matls.	3(3,0)
*CHS 1440 Chem Engr/CHM 2045 w/lab	4(3,1)	***MAC 2312 Calc. II**	4(4,0)	*(PR: CHS 1440 or CHM 2045 & MAC 2312)*	
***MAC 2311 Calc. I**	4(4,0)	***PHY 2048 Physics for Engineers I w/lab**	4(3,3)	Social Foundations	3(3,0)
		SPC 1603 Oral Communications	3(3,0)		

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)	**EGN 3321 Engineering Analysis Dynamics**	3(3,0)	ECO 2013 or ECO 2023 Economics I or II	3(3,0)
***MAP 2302 Differential Equ**	3(3,0)	*(PR: EGN 3310, CR: MAC 2313)*		Cultural & History Foundations	3(3,0)
PHY 2049 Phys for Engr II w/ lab	4(3,3)	**EGN 3343 Thermodynamics**	3(3,0)	Cultural & History Foundations	3(3,0)
EGN 3310 Engr Analysis Statics	3(3,0)	*(CR: EGN 3321, MAP 2302)*			
(PR PHY 2048, CR: MAC 2312)		**EGM 3601 Solid Mechanics**	3(3,0)		
		(PR: EGN 3310, CR: MAP 2302)			
		EGN 3373 Principles of Electrical Engr	3(3,0)		
		(PR: PHY 2049; CR: MAP 2302)			

THIRD YEAR

Fall (15 credit hours, 17 contact hours)		**Spring** (15 credit hours, 16 contact hours)	
EML 3034C Mod Met in MMAE[1]	3(3,0)	**EAS 3101 Fundamentals of Aerodynamics**	3(3,0)
(PR: MAP 2302, CR: EGN 3321, EML 3990)		*(PR: EAS 3010)*	
EAS 3010 Fund of Aerospace Flight[1]	3(3,0)	**EAS 3810C Design of Aerospace Experiments**	3(1,3)
(PR: EGN 3321; CR: EGN 3343)		*(PR: EAS 3800C, EAS 3010)*	
EAS 3800C AE Engr Measurements	3(2,3)	**EAS 4210 Space Structural Dynamics**	3(3,0)
(PR: EGN 3343, CR: EGM 3601)		*(PR: EGN 3321, EML 3034C, EGM 3601)*	
EAS 4200 Flight Structures	3(3,0)	EAS 4505 Orbital Mechanics[1] **OR**	3(3,0)
(PR: EGM 3601)		*(PR: EGN 3321, MAP 2302)*	
Science Foundation Elective	3(3,0)	EAS 3530 Space System Concepts	
EAS 3990 Career/Academic Advising I	0(0,0)	*(PR: PHY 2049)*	
(PR: MAP 2302)		Approved Technical Elective	3(3,0)

FOURTH YEAR

Fall (12 credit hours, 18 contact hours)		**Spring** (15 credit hours, 19 contact hours)	
EML 4312C Feedback Control	3(2,3)	**EAS 4300 Propulsion Systems**	3(3,0)
(PR: EGN 3373, EAS4210, MAP2302)		*(PR: EAS 4134)*	
EAS 4105 Flight Mechanics	3(3,0)	**EAS 4710C Aerospace Design II OR**	3(1,6)
(PR: EAS 3101, CR: EML 4312C)		**EGN 4413 Interdisciplinary Design II**	
EAS 4134 High Speed Aerodynamics	3(3,0)	*(PR: EAS 4700C, EAS 4991)*	
(PR: EAS 3101)		Approved Technical Elective	3(3,0)
EAS 4700C Aerospace Design I OR	3(1,6)	Approved Technical Elective	3(3,0)
EGN 4412 Interdisc Design I		Cultural & History Foundations	3(3,0)
(PR: EAS 4200, EAS 3800C, EAS 3010; CR: EML 4312C)			
EAS 4991 Career/Academic Advising II	0(0,0)		
(PR: EAS 3990, CR: EML 4312C)			

IMPORTANT NOTICE :

* Grade of C or better is required in these courses.

[1] Grade of C or better is required in MAC 2311, MAC 2312, MAC 2312 and PHY 2048C

Bolded course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.

Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to insure that you take courses in a proper sequence regarding prerequisites.

Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions, which will benefit you.

If you are not ready to begin the Calculus sequence upon entry to the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Revised: 3/8/2012