

Name:

University of Central Florida
Department of Mechanical, Materials and Aerospace Engineering
Degree Requirement Checksheet

Aerospace Engineering
2011-12 Catalog Year
128 Semester Hours

PID:

GENERAL EDUCATION PROGRAM				ENGINEERING MAJOR	SH	Grd	Trans Equiv
COMMUNICATION - 9 SH	SH	Grd	Trans Equiv	EGN 1006 Intro to Engr Prof	1		
ENC 1101	3	*		EGN 1007 Engr Concepts and Methods	1		
ENC 1102	3	*		EGN 3310 Engineering Analysis-Statics	3		
SPC 1600 (SPC 1016 preferred)	3			EGN 3321 Engineering Analysis-Dynamics	3		
CULTURAL & HISTORICAL - 9 SH				EGN 3343 Thermodynamics	3		
Select 2: AMH 2010, AMH 2020, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WHO 2012, WHO 2022	6	*		EMA 3706 Struct and Prop of Aerospace Materials	3		
Approved Cultural Foundations course:	3			EGN 3373 Principles of Electrical Engr	3		
SOCIAL FOUNDATION - 6 SH				STA 3032 Probability & Statistics for Engrs	GEP		
ANT 2000/ PSY 2012/ SYG 2000	3			EGM 3601 Solid Mechanics	3		
ECO 2013 (preferred) <u>or</u> ECO 2023	3			EAS 3010 Fundamentals of Flight	3		
SCIENCE - 6 SH				EAS 3101 Aerodynamics I	3		
GEO 1200 <u>or</u> GEO 2370 (either GEO is preferred)				EAS 3800C Aerospace Engr Measurements	3		
<u>or</u> BSC 1050C <u>or</u> BSC 1005C <u>or</u> MCB 1310 <u>or</u> ANT 2511	3			EAS 3810C Design of Aero Experiments	3		
PHY 2048/L Phys for Engrs & Sci I	4			EAS 4105 Flight Mechanics	3		
MATHEMATICAL - 6 SH				EAS 4134 High-Speed Aerodynamics	3		
MAC 2311Calc.I	4	*	**	EAS 4200 Flight Structures	3		
STA 3032 Prob & Stats for Engrs	3	*		EAS 4210 Space Structural Dynamics	3		
GPA Gen Ed Prog =	38			EAS 4300 Aerothermodynamics-Propulsion Systems	3		
				EAS 3530 Space Systems Concepts <u>or</u>	3		
				EAS 4505 Orbital Mechanics			
* Indicates "C-" minimum required by the Gordon Rule				EML 3034C Modeling Methods in MMAE	3		
ENGINEERING CORE	SH	Grd	Trans Equiv	EML 4312C Feedback Control	3		
MAC 2311 Calc I	GEP	**		EAS 4700C Aerosp. Desg. I or EGN 4412 Interdiscp. Des.1	3		
MAC 2312 Calc II	4	**		EAS 4710C Aerosp. Desg. II or EGN 4413 Interdisp. Des. 2	3		
MAC 2313 Calc III	4	**		Approved Technical Elective	3		
MAP 2302 Differential Equations	3	**		Approved Technical Elective	3		
CHS 1440/L Chem for Engrs (preferred) or CHM 2045/L	4	**		Approved Technical Elective	3		
PHY 2048/L Phys for Engrs & Sci I and Lab	GEP	**		SUBTOTAL SEM HRS	71		
PHY 2049/L Phys for Engrs & Sci II and Lab	4			GPA Engr Option = 2.25 minimum			
SUBTOTAL SEM HRS	19			FE Exam Encouraged for AE (take during Senior year)			
				Date FE Exam Taken:			Score:

ADVISOR'S COMMENTS:

** C or better is required in Calculus I, II & III, Differential Equations, Physics I and Chemistry