

NAME:

University of Central Florida  
Mechanical, Materials and Aerospace Engineering DepartmentMechanical Engineering  
2011-12 Catalog Year  
128 Semester Hours

PID:

Degree Requirement Checklist

GENERAL EDUCATION PROGRAM				ENGINEERING MAJOR	SH	Grd	Trans Equiv
<b>COMMUNICATION - 9 SH</b>							
ENC 1101	3	*		EGN 1006 Intro to Engr Prof	1		
ENC 1102	3	*		EGN 1007 Engr Concepts and Methods	1		
SPC 1600 (SPC 1016 preferred)	3			EGN 3310 Engineering Analysis-Statics	3		
<b>CULTURAL &amp; HISTORICAL - 9 SH</b>				EGN 3321 Engineering Analysis-Dynamics	3		
Select 2: AMH 2010, AMH 2020, EUH 2000, EUH 2001, HUM 2211, HUM 2230, WHO 2012, WHO 2022				EGN 3343 Thermodynamics	3		
Approved Cultural Foundations Course				EGN 3365 Struct and Prop of Materials	3		
<b>SOCIAL FOUNDATION - 6 SH</b>				EGN 3373 Principles of Electrical Engr	3		
ANT 2000, PSY 2012, SYG 2000	3			STA 3032 Probability & Statistics for Engrs	GEP		
ECO 2013 (preferred) or ECO 2023	3			EML 3034C Modeling Methods in MMAE	3		
<b>SCIENCE - 6 SH</b>				EML 3303C Mechanical Engr Measurements	3		
ANT 2511, BSC 1005, BSC 1050, GEO 2370, GEO 1200, MCB 1310	3			EML 4312C Feedback Control	3		
PHY 2048/L Phys for Engrs & Sci I	4			EML 3500 Machine Design and Analysis	3		
<b>MATHEMATICAL - 6 SH</b>				EGM 3601 Solid Mechanics	3		
MAC 2311 Calc I	4	*	**	EML 3701 Fluid Mechanics I	3		
STA 3032 Prob & Stats for Engrs	3	*		EML 4142 Heat Transfer	3		
<b>GPA Gen Ed Prog =</b>				EML 4220 Vibration Analysis	3		
				EML 4535C Intro to CAD/CAM	3		
				EML 4501C Engineering Design I	3		
				EML 4502C Engineering Design II	3		
* Indicates "C-" minimum required by the Gordon Rule				Approved Technical Elective	3		
<b>ENGINEERING CORE</b>				EML 3990 Career/Academic Advising I	0		
MAC 2311 Calc I	GEP	**		EML 4991 Career/Academic Advising II	0		
MAC 2312 Calc II	4	**		<b>SUBTOTAL SEM HRS</b>			
MAC 2313 Calc III	4	**		<b>ENERGY SYSTEMS OPTION</b>			
MAP 2302 Differential Equations	3	**		EML 3101 Thermo of Mechanical Systems	3		
CHS 1440/L Chem for Engr (preferred) or CHM 2045/L	4	**		EML 4304C Design of Thermo-Mech. Exp.	2		
PHY 2048/L Phys for Engr & Sci I and Lab	GEP	**		EML 4703 Fluid Mechanics II	3		
PHY 2049/L Phys for Engr & Sci II and Lab	4			EML 4145 Topics in Heat Transfer	2		
<b>SUBTOTAL SEM HRS</b>				EML 4221L Mechanical Systems Exp. Tech	2		
				Approved Technical Elective	6		
				<b>SUBTOTAL SEM HRS</b>			
				<b>MATERIALS OPTION</b>			
				EMA 3012C Exp Techniques Mech & Materials	3		
				EMA 3124 Selection and Design of Materials	3		
				EMA 4223 Principles of Mechanical Behavior	3		
				EMA 4102 Thermodynamics and Kinetics of Materials	3		
				Approved Technical Elective	6		
				<b>SUBTOTAL SEM HRS</b>			
				<b>MECHANICAL SYSTEMS OPTION</b>			
				EML 4304C Design of Thermo-Mech. Exp.	2		
				EML 3262 Kinematics fo Mechanisms	3		
				EGM 3601L Solid Mechanics Lab	2		
				EML 4221L Mechanical Systems Exp. Tech	2		
				Approved Technical Elective	9		
				<b>SUBTOTAL SEM HRS</b>			
				<b>GPA Engr Major and Option = 2.25 minimum</b>			
				<b>FE Exam Encouraged (take during Senior year):</b>			

ADVISOR'S COMMENTS:

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