

UNIVERSITY OF MIAMI
DEPARTMENT OF MECHANICAL AND AEROSPACE
ENGINEERING
BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING
126 Credits
2011- 2012

Freshman Year:					
MAE 111	Introduction to Engineering I	3	MAE 112	Introduction to Engineering II	2
ENG 105	English Composition I	3	ENG 107	Writing About Science	3
MTH 151	Calculus I for Engineers	5	MTH 162	Calculus II	4
PHY 205	University Physics I	3	PHY 206	University Physics II	3
			PHY 208	University Physics II Lab	1
			CAE 210	Mechanics of Solids I	3
Total			Total		
14			16		

Sophomore Year:					
MAE 207	Mechanics of Solids II	3	MAE 202	Dynamics	3
IEN 311	Applied Probability & Statistics	3	MAE 241	Measurements Laboratory	3
MTH 211	Calculus III	3	EEN 205	Principles of Electrical Engineering I	3
PHY 207	University Physics III	3	CHM 151	Chemistry for Engineers I	3
PHY 209	University Physics III Lab	1	CHM 153	Chemistry Lab for Engineers	1
	PS/HA Elective*	3		PS/HA Elective*	3
Total			Total		
16			16		

Junior Year:					
MAE 301	Engineering Materials Science	3	MAE 310	Heat Transfer	3
MAE 303	Thermodynamics I	3	MAE 351	Mechanics Laboratory	2
MAE 309	Fluid Mechanics	3	MAE 371	Aerodynamics	3
MAE 341	Mechanical Design I	3	MAE 470	Introduction to Aerospace Structures	3
MTH 311	Ordinary Differential Equations	3		MAE Technical Elective**	3
	PS/HA Elective*	3		PS/HA Elective*	3
Total			Total		
18			17		

Senior Year:					
MAE 404	Experimental Engineering Laboratory	2	MAE 415	Automatic Control	3
MAE 444	Capstone Aerospace Design Project - I	1	MAE 445	Capstone Aerospace Design Project - II	2
MAE 446	Aircraft Design	3		MAE Technical Elective	3
MAE 471	Flight Dynamics	3		Advanced PS/HA Elective*	3
MAE 472	Design of Aerospace Structures	3		Advanced PS/HA Elective*	3
MAE 570	Aero Propulsion	3			
Total			Total		
15			14		

* To be selected from approved lists of [People and Society/Humanities and Arts Electives](#)