

## BME Aerospace Concentration Degree Requirements for Students Entering 2014

Course #	Course Title	FALL	SPRING
<b>FIRST YEAR</b>			
ENG 100	Writing Seminar I	3	
PHL 103	Introduction to Philosophy	3	
HST 103	History – West and World	3	
CHM 123/123L	General Chemistry/Chemistry Lab	3/1	
MTH 168/169	Analytic Geometry & Calculus I, II	4/4	
CMM 100	Principles of Oral Communication	3	
REL 103	Introduction to Religion and Theological Studies	3	
EGR 103	Engineering Innovation	2	
PHY 206	General Physics I	3	
MEE 104L	Computer Graphics I	1	
EGR100/100	Enrichment Workshop	0/0	
MEE 101/101	Introduction to Mechanical Engineering	<u>0/0</u>	
(fall and spring placement may vary but all courses are to be taken)		33	
<b>SECOND YEAR</b>			
ENG 200	Writing Seminar II	3	
EGR 201	Mechanics I	3	
MEE 225	Introduction to Flight (will fulfill one Open Elective)	3	
MTH 218	Analytic Geometry & Calculus III	4	
MEE 227L	Computer Graphics II	1	
EGR 202	Thermodynamics I	3	
MEE 200/200	Professional Development Seminar	0	0
EGR 203	Electrical and Electronic Circuits		3
ECE 201L	Circuits Analysis Laboratory		1
EGM 303	Mechanics II		3
PHY 207	General Physics II		3
MTH 219	Applied Differential Equations		3
MEE 308	Fluid Mechanics		<u>3</u>
		<u>17</u>	<u>16</u>
<b>THIRD YEAR</b>			
SSC 200	CAP: Social Science	3	
EGM 202	Dynamics	3	
MEE 409	Aerospace Structures	3	
	Approved Math/Science Elective	3	
MEE 314	Computational Methods	3	
MEE Elective	MEE 413 or AEE 5XX (500 level courses require chair approval) 3		
MEE 415	Professional Development Seminar I	0	
	CAP: Ethics		3
MEE 321	Theory of Machines		3
MEE 312/312L	Engineering Materials I and Lab		3/1
MEE 401	Aerodynamics		3
MEE 410/410L	Heat Transfer/Thermo Fluids Lab		<u>3/1</u>
		<u>18</u>	<u>17</u>
<b>FOURTH YEAR</b>			
	CAP: Arts	3	
MEE 440	Flight Vehicle Performance	4	
MEE 341	Engineering Experimentation	3	
MEE 431L	Multidisciplinary Des I	2	
MEE 425	Aerospace Design	3	
	CAP: History		3
	CAP: Adv REL or PHL	3	
	Open Elective		3
MEE 432L	Multidisciplinary Design II		3
MEE 460	Engineering Analysis		3
MEE 416	Professional Development Seminar II		<u>1</u>
		<u>15</u>	<u>16</u>
<b>Common Academic Program</b>			
<b>Area</b>	<b>Course Number</b>	<b>CAP Gen Ed Requirement Fulfilled</b>	
Social Science		Social Science	
Ethics		Practical Ethical Action + Advanced REL or PHL	
Arts		Arts	
History		Advanced Historical Studies	

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<b>Course #</b>	<b>Course Title</b>	<b>FALL</b>	<b>SPRING</b>
REL/PHL		Faith Traditions + Advanced REL or PHL + Diversity/Social Justice	