

BME Degree Requirements for Energy Systems Concentration Students Entering 2011 (RED)

COURSE#	COURSE TITLE	FALL	SPRING
FIRST YEAR			
MEE 101/101	Introduction to Mechanical Engineering	0	0
EGR 103	Engineering Innovation	2	
CHM 123/123L	General Chemistry/Chemistry Lab	3/1	
ENG 101/102	English Composition I, II (or ENG 114 one semester)	3	3
HST 103	History – West and World	3	
MTH 168/169	Analytic Geometry & Calculus I, II	4	4
MEE 104L	Computer Graphics I	1	
PHY 206	General Physics I	3	
PHL 103	Introduction to Philosophy	3	
REL 103	Introduction to Religion	3	
EGR100/100	Enrichment Workshop	<u>0</u>	0
(fall and spring placement may vary but all courses are to be taken)		33	
SECOND YEAR			
	General Education Requirement	3	
MEE 227L	Computer Graphics II	1	
EGR 201	Mechanics I	3	
MTH 218	Analytic Geometry & Calculus III	4	
EGR 202	Thermodynamics I	3	
PHY 207	General Physics II	3	
MEE 200/200	Professional Development Seminar	0	0
	General Education Requirement, Energy Related		3
CMM 11_	Communication Module		1
MTH 219	Applied Differential Equations		3
EGM 202	Dynamics		3
EGM 303	Mechanics II		3
EGR 203	Electrical and Electronic Circuits		3
ECE 201L	Circuits Analysis Laboratory	<u> </u>	<u>1</u>
		17	17
THIRD YEAR			
Science Elective	PHY 220 or SEE 301	3	
CMM 11_	Communication Module	1	
MEE 314	Computational Methods	3	
MEE 321	Theory of Machines	3	
MEE 308	Fluid Mechanics	3	
MEE 312/312L	Engineering Materials I and Lab	3/1	
MEE 415	Professional Development Seminar I	0	0
MEE 341	Engineering Experimentation		3
MEE 410/410L	Transfer & Thermo Fluids Lab		3/1
MEE 478	Energy Efficient Manufacturing		3
CMM 11_	Communication Module		1
	Open Elective		3
	General Education Requirement, Energy Related		3
		<u> </u>	<u>17</u>
FOURTH YEAR			
MEE 427	Mechanical Design I	3	
MEE 431L	Multidisciplinary Design I	1	
MEE 439	Dynamic Systems and Controls	4	
MEE 433	Project Management and Innovation	1	
	Ethics Elective (SEE401, PHL 321, REL 365)	3	
	Mechanical Engineering Elective	3	
MEE 415/416	Professional Development Seminar I/II	0	1
MEE 432L	Multidisciplinary Design II		3
MEE 460	Engineering Analysis		3
	Mechanical Engineering Elective		3
	Open Elective		3
	General Education Requirement		<u>3</u>
		<u>15</u>	<u>16</u>
Declared Cluster:			
Gen Ed (5 Classes)		Cluster (3 Categories) (3 Classes)	
Art Study			
History besides HST 103			
Phil/Rel besides PHL 103 or REL 103			
Phil/Rel besides PHL 103 or REL 103			
Social Science			
CMM 110, CMM 111 or 112 and CMM 113 Communication Modules may be taken in any order			

