

BME Degree Requirements for Energy Systems Concentration Students Entering 2013 (RED)

COURSE#	COURSE TITLE	FALL	SPRING
FIRST YEAR			
ENG 100	Writing Seminar I	3	
PHL 103	Introduction to Philosophy	3	
HST 103	History – West and World	3	
EGR 103	Engineering Innovation	2	
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	
MEE 104L	Computer Graphics I	1	
PHY 206	General Physics I	3	
REL 103	Introduction to Religion & Theological Studies	3	
EGR100/100	Enrichment Workshop	0/0	
MEE 101/101	Introduction to Mechanical Engineering	0/0	
(fall and spring placement may vary but all courses are to be taken)		33	
SECOND YEAR			
ENG 200	Writing Seminar II	3	
EGR 201	Mechanics I	3	
PHY 207	General Physics II	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
	CAP: History	3	
EGM 202	Dynamics		3
EGM 303	Mechanics II		3
EGR 203	Electrical and Electronic Circuits		3
ECE 201L	Circuits Analysis Laboratory		1
MTH 219	Applied Differential Equations	17	16
THIRD YEAR			
MEE 321	Theory of Machines	3	
MEE 312/312L	Engineering Materials I and Lab	3/1	
	Science Elective	3	3 (Energy courses such as PHY 220, SEE 301, BIO 395)
MEE 314	Computational Methods	3	
MEE 308	Fluid Mechanics	3	
MEE 415	Professional Development Seminar I	0	
	CAP: Ethics	3	
	Open Elective, Energy related		3
MEE 341	Engineering Experimentation		3
MEE 410/410L	Transfer & Thermo Fluids Lab		3/1
MEE 478	Energy Efficient Manufacturing	16	16
FOURTH YEAR			
	CAP: Arts	3	
MEE 427	Mechanical Design I	3	
MEE 431L	Multidisciplinary Design I	1	
MEE 439	Dynamic Systems and Controls	4	
SSC 200	CAP: Social Science	3	
	MEE Elective, Energy related	3	
MEE 433	Project Management and Innovation	1	
	CAP: Faith/Diversity/Social Justice		3
MEE 432L	Multidisciplinary Design II		3
MEE 460	Engineering Analysis		3
	MEE Elective, Energy related		3
	Open Elective, Energy related		3
MEE 416	Professional Development Seminar II	18	16

Common Academic Program:		
Area	Course Number	CAP Requirement Fulfilled
History		Advanced Historical Studies
Ethics		Practical Ethical Action + Advanced REL or PHL
Arts		Arts
Social Science	SSC200	Social Science
Faith/Diversity/Social Justice		Faith Traditions + Advanced REL or PHL + Diversity/Social Justice