

BME Degree Requirements for Students Entering 2016

Course #	Course Title	FALL	SPRING	
ENG 100	Writing Seminar I	3		FIRST YEAR
PHL 103	Introduction to Philosophy	3		
HST 103	History – West and World	3		
PHY 206	General Physics I	3		
MTH 168 (or MTH137/138)	Analytic Geometry & Calculus I	4		
CMM 100	Principles of Oral Communication	3		
REL 103	Introduction to Religion & Theological Studies	3		
EGR 103	Engineering Innovation	2		
CHM 123/123L	General Chemistry/Chemistry Lab	3/1		
MTH 169	Analytic Geometry & Calculus II	4		
MEE 104L	Computer Graphics I	2		
EGR 100/100	Enrichment Workshop	0/0		
EGR 102/MEE101	Freshman Seminar I and II	0/0		
(fall and spring placement may vary but all courses are to be taken)		34		
ENG 200	Writing Seminar II	3		SECOND YEAR
EGR 201	Mechanics I	3		
PHY 207	General Physics II	3		
MTH 218	Analytic Geometry & Calculus III	4		
EGR 202	Thermodynamics I	3		
MEEorCOP200	Professional Development Seminar	0		
	CAP1		3	
EGM 202	Dynamics		3	
MEE 314	Computational Methods		3	
MTH 219	Applied Differential Equations		3	
EGR 203/203L	Electrical and Electronic Circuits and Circ Anal Lab		3/1	
		16	16	
	CAP2	3		THIRD YEAR
MEE 321	Theory of Machines	3		
MEE 312/312L	Engineering Materials I and Lab	3/1		
EGM 303	Mechanics II	3		
MEE 308	Fluid Mechanics	3		
MEE 300	Professional Development for Juniors	0		
	CAP3		3	
MEE 344 or 378	Manufacturing Processes or Energy Efficient Mfg		3	
MEE 341	Engineering Experimentation		3	
	Open Elective		3	
MEE 410/410L	Heat Transfer and Thermo Fluids Lab		3/1	
		16	16	
	CAP4	3		FOURTH YEAR
MEE 427	Mechanical Design I	3		
MEE 431L	Multidisciplinary Des I	2		
MEE 439	Dynamic Systems and Controls	4		
	Mechanical Engineering Elective	3		
	Approved Math/Science Elective	3		
	CAP5		3	
MEE 432L	Multidisciplinary Design II		3	
	Mechanical Engineering Elective		3	
	Open Elective		3	
MEE 460	Engineering Analysis		3	
MEE 400	Professional Development for Seniors		1	
		18	16	

CAP Requirements		CAP Component	CB: Faith Traditions	CB: Practical Ethical Act	Diversity / Social Justice	CB: Inquiry	CB: Integrative
Humanities Areas	Course						
Social Science							
Arts							
Adv PHL/REL							
Adv PHL/REL							
Adv History							
	PHY 207					X	
	MTH 219						X

To complete CAP requirements, take 5 courses in the Humanities Areas below so that all CAP Component columns have a check.