

BME Degree Requirements for Students Entering 2019

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		
EGR 103	Engineering Innovation	2		
CMM 100	Principles of Oral Communication		3	
REL 103	Introduction to Religion & Theological Studies		3	
PHY 207	General Physics II		3	
MTH 169	Analytic Geometry & Calculus II		4	
MEE 104L	Solid Modeling in Design		2	
EGR 150/151	Enrichment Workshop	0	0	
EGR 102/MEE101	Freshman Seminar I and II (fall and spring placement may vary but all courses are to be taken)	0 18	0 15	
ENG 200	Writing Seminar II	3		
EGR 201	Mechanics I	3		
CHM 123/123L	General Chemistry/Chemistry Lab	3/1		
MTH 218	Analytic Geometry & Calculus III	4		
EGR 202	Thermodynamics I	3		
EGRorCOP200	Professional Development Seminar CAP1	0	3	
EGM 202	Dynamics		3	
MEE 214	Programming for Mech Engrs		3	
MTH 219	Applied Differential Equations		3	
MEE 205	Mechatronics		3	
		<u>17</u>	<u>15</u>	
	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 CAP3	0	3	
MEE 344 or 478	Manufacturing Processes or Energy Efficient Mfg		3	
MEE 341	Engineering Experimentation Open Elective		3 3	
MEE 410/410L	Heat Transfer and Thermo Fluids Lab		3/1	
		<u>16</u>	<u>16</u>	
	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	
		<u>18</u>	<u>16</u>	

5 Humanities Areas		CAP Component	Social Science	Arts	Cross Bound: Faith Traditions	Cross Bound: Pract. Ethic Act	Cross Bound: Inquiry	Cross Bound: Integrative	Adv PHL/REL	Adv PHL/REL	Adv Historical Study	Diversity / Social Justice
Areas	Course Number											
Social Science												
Arts												
PHL/REL												
PHL/REL												
History												
	MEE 205							X				