

Sample Course Sequence for the combined BE MS

Fall, Freshman Year		credits	Spring, Freshman Year		credits
AMS 151 Calc I	4		AMS 161 Calc II	4	
CHE 131 Chem I lecture	4		CHE 132 Chem II lecture	4	
PHY 131/133	4		PHY 132/134	4	
BME 100 Introduction to BME	3		MEC 203 Computer-Aided Drafting II	2	
DEC A WRT 102	3		ESG 111 C Programming	3	
Introductory Seminar	1		Introductory Seminar	1	
Total	19		Total	18	
Fall, Sophomore Year			Spring, Sophomore Year		
AMS 261 Calc III	4		AMS 361 Calc IV	4	
DEC F	3		BME 212 BME Res Fundamentals	3	
BIO 202 Molecular & Cellular Biology	3		BME 304 Genetic Engineering DEC H	3	
BIO 204 Laboratory, 2 credits	2		DEC B	3	
MEC 260 Engineering Statics	3		MEC 262 Engineering Dynamics	3	
ESE 271 Electrical Circuit Analysis I	4				
Total	19		Total	16	
Fall, Junior Year			Spring, Junior Year		
AMS 210 Linear Algebra	3		BME 301 Bioelectricity	3	
AMS 310 Probab Stat	3		BME 305 Biofluids	3	
Technical Elective	3		Technical Elective	3	
Technical Elective	3		Technical Elective	3	
BME 300 - Writing in BME	0				
DEC G	3				
Total	15		Total	12	
Fall, Senior Year			Spring, Senior Year		
BME 440 Senior Design in BME	3		BME 441 Senior Design in BME	3	
Technical Elective	3		Technical Elective	3	
BME 501 Engr Princ in Cell Tissue Organ Sys	3		BME 502 Engr Princ in Cell Tissue Organ Sys	3	
BME 599*	3		BME 599*	3	
DEC J or DEC I, one is SBS the other Hum	3		DEC I or DEC J, one is SBS the other Hum	3	
Total	15		Total	15	
Fall, 5th Year Graduate			Spring, 5th Year Graduate		
BME 505- Prince. & Pract. of BME 1	1		BME 506- Prince. & Pract. of BME 1	1	
Graduate Tech. Elective 1	3		Graduate Tech. Elective 4	3	
Graduate Tech. Elective 2	3		Graduate Tech. Elective 5	3	
Graduate Tech. Elective 3	3		Graduate Tech. Elective 6	4	
BME 599*	3		BME 599*	3	
Total	13		Total	14	

*At least 6 credits of BME 599 is required for MS with thesis; otherwise, students choose an appropriate Technical Elective.