Biomaterials and Tissue Engineering Track, 2017-2018		
Freshman	Credits	
CHEM 1127Q – General Chemistry	4	
MATH 1131Q – Calculus I	4	
CSE 1010 – Introduction to Computing for Engineers	3	
ENGL 1010 – Sem in Academic Writing OR ENGL 1011 Sem in Writing Through Lit	4	
ENGR 1000 – Orientation to Engineering	1	
CHEM 1128Q – General Chemistry	16 4	
MATH 1132Q – Calculus II	4	
BIOL 1107 – Principles of Biology	4	
ENGR 1166 – Foundations of Engineering (BME section)	3	
211011 1100 1 oundations of Engineering (Bivie Section)	15	
Sophomore		
PHYS 1501Q – Physics for Engineers I	4	
MATH 2110Q – Multivariable Calculus	4	
CE 2110 – Applied Mechanics I	3	
PNB 2264 – Human Physiology & Anatomy	4	
STAT 3025Q – Statistical Methods (Calculus Level)	3	
	18	
PHYS 1502Q – Physics for Engineers II	4	
BME 3120 – LabView Basics for Engineers	1	
MSE 2101 – Materials Science & Engineering I	3	
ECE 2001 – Electrical Circuits	4	
MATH 2410Q – Elementary Differential Equations	3	
MATH 2210Q – Applied Linear Algebra	3 18	
Junior	10	
BME 3500 – Biomedical Engineering Measurements	4	
ECE 3101 – Signals and Systems	3	
BME 3600 – Biomechanics	4	
BME 3700 – Biomaterials	4	
Content Area 1 (in Arts and Humanities, not PHIL)	3	
	18	
BME 3900 – Junior Design	3	
BME 4710 – Tissue Engineering	3	
CHEM 3563 – Physical Chemistry	4	
MCB 2210 – Cell Biology	3	
Content Area 2 (Social Science)	3 16	
Senior	16	
BME 4900 – Biomedical Engineering Design I	3	
PHIL 1104 – Philosophy & Ethics	3	
BME Elective	3	
Track Elective	3	
Content Area 2 (social science, not same department as junior year)	3	
	15	
BME 4910W – Biomedical Engineering Design II	3	
BME Elective	3	
Track Elective	3	
Content Area 4 (Diversity)	3	
Content Area 4 (International)	3	
	15	
Total Credits	131	

BTE Track Electives, 2017-2018	
MSE 2102 Materials Science & Engineering II	
MSE 3001 Applied Thermodynamics of Materials	
MSE 3002 Transport Phenomena in Materials Processing	
MSE 3003 Phase Transformation Kinetics & Applications	
MSE 3004 Mechanical Behavior of Materials	
MSE 3020 Failure Analysis	
MSE 3029 Ceramic Materials	
MSE 3030 Introduction to Composite Materials	
MSE 4001 Electrical & Magnetic Properties of Materials	
MSE 4021 Materials Joining	
MSE 4034 Corrosion & Materials Protection	
MSE 4038 Alloy Casting Processes	
MSE 4095 Special Topics in Materials Engineering	Topic requires BME Director approval
MSE 4240 Nanomaterials Synthesis & Design	
MSE 4241 Nanomaterials Characterization & Application	
CHEG 2103 Introduction to Chemical Engineering	
CHEG 2111 Chemical Engr. Thermodynamics I	
CHEG 3112 Chemical Engr. Thermodynamics II	
CHEG 3123 Fluid Mechanics	
CHEG 3124 Heat & Mass Transfer	
CHEG 3127 Fluid Mechanics Lab	
CHEG 3128 Heat/Mass/Kinetics Lab	
CHEG 3145 Chemical Engineering Analysis	
CHEG 3151 Process Kinetics	
CHEG 3156/MSE 3156 Polymeric Materials	
CHEG 3173 Introduction to Biochemical Engineering	
CHEG 4995 Special Topics in Chemical Engineering	Topic requires BME Director approval

BTE BME Electives, 2017-2018	
BME 4701 Advanced Biomaterials	
BME 4985 Special Topics in BME	Topic requires BME Director approval
BME 4999 Independent Study in BME	Topic requires BME Director approval