

BIOENGINEERING Department
Biomaterials – Major Code 405 COURSE COMPLETION PLAN
2016-2017 (128 total credits)

STUDENT NAME: Last _____ First _____ Middle Initial _____					
STUDENT ID NUMBER: _____ USER ID _____ ADVISOR _____					
CLEMSON ENTRANCE DATE: _____ HONORS _____ DEPT'L? _____					
**TERM: YY&& where YY = Year and && = Semester Code: 08-Fall; 05-First Summer; 06-Second Summer; 01 -Spring					
FRESHMAN YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
CH 1010 Chem I	4		CH 1020 Chem II	4	
ENGL 1030 Accel. Comp.	3		PHYS 1220 Phys with Calc. I	3	
ENGR 1020 Eng.Dis.&Skills	2		ENGR 1410 Progr &Prob Solvg	3	
MATH 1060 Calc. I	4		MATH 1080 Calc. II	4	
Arts& Humanities/ SS ¹	3		Arts&Humanities/ SS ¹	3	
			Biology requirement ²	1	
Total	16		Total	18	
SOPHOMORE YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
BIOE 2010 Intro. to BME	3		C E 2010 Statics	3	
MSE 2100 Intro. Matl. Sci.	3		ENGR 2080 EgrGraph/Mach Des2		
CH 2010 Surv Org Chem. ³	3		ECE 2070 Basic Elec Engr	2	
CH 2020 Surv OrgChemLab I			ECE 2080 EE lab	1	
MATH 2060 Calc. III	4		MATH 2080 Diff. Eq.	4	
PHYS 2210 Physics II	3		BIOE 3020 Biomatls	3	
			BIOE 2000 Bioe Prof Dev't	0	
Total	17		Total	15	
JUNIOR YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
BIOL 3150 Funct. H. Anat.	4		BCHM 3050 Essentl. Ele. Bioch.	3	
MSE 3260 Thermo of Matls.	3		BIOE 3210 Biofluid Mechs	3	
MSE 3270 Transp. Phenom.	3		MATH 3020 Statistics	3	
MSE 3190 Matls. Process.	3		BIOE Tech. Req. ⁴	3	
BIOE 3200 Biomechanics	3		BIOE 3700 Bioinstr. & Imag.	3	
			BIOE 3000 Bioe Ethics&Entrep.	0	
Total	16		Total	15	
SENIOR YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
MSE 4150 Intro. Polym. Sci	3		BIOE 4030 Appld Bioe Design	3	
BIOL 4610 Cell Biology	3		BIOE 4480 Tissue Engr.	3	
BIOE 4010 Bioe Des Theor	3		Arts& Humanities/ SS ¹	3	
			BIOE 4000 Leadership&Comm	1	
Arts&Humanities/ SS ¹	3		BIOE Tech. Req. ⁴	3	
BIOE Tech. Req. ⁴	3		BIOE Tech. Req. ⁴	3	
Total	15		Total	16	

1. See General Education Requirements for Arts and Humanities, Social Sciences, Cross-Cultural Awareness, and Science & Technology in Society. 2. Bio E 1010 or Biol 1030 or 1100 or other biology course as approved 3. Students planning to enter Medical School should take CH 2230/2270 instead of CH 2010/2020 and take CH 2240/2280 additional.. Also take phys 1240 & 2230 labs 4. Select from department approved list maintained in Bioengineering Dept.