

**BIOENGINEERING – Bioelectrical – Major Code 405 COURSE COMPLETION PLAN -
Curriculum Year 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 Gen Chem I	4		CH 1020 Gen. Chem. II	4	
ENGL 1030 Accel. Comp.	3		Arts & Humanities/ SS ¹	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		PHYS 1220 Phys with Calc. I	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	
ECE 2010 Logic&Com.Dev.	2		MSE 2100 Intro. to Matl. Sci.	3	
ECE 2090 L&CD Lab	1		ENGR 2080 Engr Graph&Des	2	
ECE 2020 Elec Circuits I	3		ECE 2120 EE lab II	1	
ECE 2110 EE lab. I	1		ECE 2620 Elec. Circuits II	3	
MATH 2060 Calc Sev Var	4		MATH 2080 Diff. Equations.	4	
PHYS 2210 Phys w/Calc II	3		BIOE 2000 Bioe Prof Dev't	0	
Total	17		Total	16	
JUNIOR YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
CH 2010 Surv Organ CH. ³	3		BCHM 3050 Essentl. Ele. Bioch.	3	
CH2020 Surv OrganCHlab	1				
ECE 3200 Electronics I	3		BIOE 3700 Bioinstr. & Imaging	3	
ECE 3110 EE lab. III	1		Technical Req. ⁴	3	
ECE 3300 Signals...	3		ECE 3800 Electromagnetics	3	
			BIOE 3020 Biomats.	3	
BIOL 3150 Funct. H. Anat.	4		BIOE 3000 Bioe Ethics&Entrepr	0	
Total	15		Total	15	
SENIOR YEAR					
Fall Semester	Cr	Term to be completed	Spring Semester	Cr	Term to be completed
Arts & Humanities/ SS ¹	3		BIO E 4030 Appl Bioe Design	3	
Technical Req. ⁴	3		BIO E 4480 Tissue Engr.	3	
BIOL 4610 Cell Biology	3		Technical Req. ⁴	3	
BIOE 4010 Bioe Des Theor	3		Technical Req. ⁴	3	
BIOE 3200 Biomechanics	3		Arts & Humanities/ SS ¹	3	
			BIOE 4000Leadership&Comm.	1	
Total	15		Total	16	

1 See General Education Requirements. 2 BioE 1010 or Biol 1030 or 1100. 3. Students planning to enter Medical School should take CH 2230/2270 instead of CH 2010/2020 and take CH 2240/2280 as an additional course sequence. Also take physics labs (phys 1240 with 1220 and 2230 with 2210) 4. ECE electives or BioE electives; must be selected from a list maintained in the Bioengineering Department..