

BIOMEDICAL ENGINEERING - Pre Calc 14-15 EIGHT SEMESTER PLAN

YEAR 1

FRESHMAN FALL		STATUS	PREREQ	NOTES
ENG 103	English Composition 1	3	ACT/SAT	
MA 124	Pre Calc	4	ACT/SAT	
CH 155H	Advanced General Chemistry	5	ACT/SAT	
	Humanities/SS Elective** (6)	6		
Total		18		

FRESHMAN SPRING		STATUS	PREREQ	NOTES
ENG 133	Technical Communication	3	ENG 103	
MA 134	Calculus I	4	MA 124	
CH203/211	Organic Chemistry & Laboratory	4	CH155H	
GE 101	Intro to Engineering	1		
	Humanities/SS Elective** (6)	6		
Total		18		

YEAR 2

SOPHOMORE FALL		STATUS	PREREQ	NOTES
ES 213	Statics	3	co(MA 164/ PH 224)	
ES 233	Engineering Materials	3	CH155H / co PH 224	
MA 164	Calculus 2	4	MA 134	
PH 224	University Physics 1 & Laboratory	4	MA 134	
	Concentration Elective (3)	3		
Total		17		

SOPHOMORE SPRING		STATUS	PREREQ	NOTES
ES 223	Dynamics	3	ES 213/MA 164/PH 224	
BIO 254	Human Anatomy	4	BME 2013	
PH 234	University Physics 2 & Laboratory	4	MA 164/PH 224	
BME 2013	Intro to Biomedical Engineering	3	CH 155H/MA 134	
MA 213	Calculus 3	3	MA 164	
Total		17		

YEAR 3

JUNIOR FALL		STATUS	PREREQ	NOTES
MA 233	Diff Equations	3	MA 213	
BME 3003	Intro to Biomechanics	3	BME 2013/ES 223	
BME 3103	Biomaterials	3	CH 155H/BME 2013/ES 233	
ECE 213	Circuit Analysis	3	MA 134	
ECE 211	Circuit Analysis Lab	1	co ECE 213	
ES 313/ChE 313	Thermodynamics/ChE Thermodyn	3	(ES 213/MA 164/PH 224) or (MA 213/ChE 212)	
Total		16		

JUNIOR SPRING		STATUS	PREREQ	NOTES
BME 4403	Biomedical Measur/Instr	3	PH 234/ECE 213	
BME 4603	Biomed Transport	3	MA 223/ES 313 or ChE 313	
BIO 354	Human Physiology	4	BIO 254/CH 155H	
ECE 243	Analog Signals	3	MA 164/ECE 213	
BME 4303	Biochemical Engineering	3	MA 233	
ES 382	Engineering Economics	2	Jr Standing or Adv perm	
Total		18		

YEAR 4

SENIOR FALL		STATUS	PREREQ	NOTES
SP 203	Effective Speaking	3	ENG 113 or 133	
MA 393	Probability & Statistics	3	MA 213	
BME 4853	Biomedical Engineering Des I	3	BME 3003/3103,ES 313 or ChE 313	
BME 4503	Tissue Engineering	3	BME 2013/CH 203	
	Concentration Electives (6)	6		
Total		18		

SENIOR SPRING		STATUS	PREREQ	NOTES
BME 4863	Biomedical Engineering Des II	3	BME 4853	
GE 401	Professional Practice	1	Sr standing	
	Concentration Electives (9)	9		
Total		13		

** One elective restricted to PHL 313