

BIOMEDICAL ENGINEERING - ChE 14-15 EIGHT SEMESTER PLAN

YEAR 1

FRESHMAN FALL		STATUS	PREREQ	NOTES
ENG 103	English Composition 1	3	ACT/SAT	
MA 134	Calculus I	4	ACT/SAT	
CH 155H	Advanced General Chemistry	5	ACT/SAT	
GE 101	Intro to Engineering	1		
	Social Sciences Elective (3)	3		
Total		16		

FRESHMAN SPRING		STATUS	PREREQ	NOTES
ENG 133	Technical Communication	3	ENG 103	
MA 164	Calculus 2	4	MA 134	
CH203/211	Organic Chemistry & Laboratory	4	CH 155H	
BME 2013	Intro to Biomedical Engineering	3	CH 155H/MA 134	
PH 224	University Physics 1 & Laboratory	4	MA 134	
Total		18		

YEAR 2

SOPHOMORE FALL		STATUS	PREREQ	NOTES
CH 213/221	Organic Chemistry II & Lab	4	CH 203/211	
ChE 203	Material Balances	3	CH 155H/PH 224	
ES 213	Statics	3	MA 164/PH 224	
MA 213	Calculus 3	3	MA 164	
PH 234	University Physics 2 & Laboratory	4	MA 164/PH 224	
Total		17		

SOPHOMORE SPRING		STATUS	PREREQ	NOTES
ChE 212	Energy Balances	2	ChE 203	
ES 223	Dynamics	3	ES 213/MA 164/PH 224	
ECE 213/1	Circuits	4	MA 134	
MA 233	Diff Equations	3	MA 213	
ES 233	Engineering Materials	3	CH 155H	
ChE 252	Stats & Comp Methods	2	ChE 203	
Total		17		

YEAR 3

JUNIOR FALL		STATUS	PREREQ	NOTES
BME 3003	Intro to Biomechanics	3	BME 2013/ES 223	
BIO 434	Biochemistry & Lab	4	CH 213/211	
BME 3103	Biomaterials	3	CH 155H/BME 2013/ES 233	
BIO 254	Human Anatomy	4	BME 2013	
ChE 313	Thermo I	3	ChE 212/MA 213	
Total		17		

JUNIOR SPRING		STATUS	PREREQ	NOTES
BIO 354	Human Physiology	4	BIO 254/CH 155H	
BME 4403	Biomedical Measur/Instr	3	PH 234/ECE 213	
BME 4303	Biochemical Engineering	3	MA 233	
ECE 243	Analog Signals	3	MA 164/ECE 213	
BME 4603	Biomed Transport I	3	ChE 313/MA 223	
Total		16		

YEAR 4

SENIOR FALL		STATUS	PREREQ	NOTES
BME 4503	Tissue Engineering	3	BME 2013/CH 203	
BME 4853	Biomedical Engineering Des I	3	BME 3003/3103/ChE 313	
ChE 303	Fluids	3	ChE 212	
SP 203	Effective Speaking	3	ENG 113 or 133	
ES 382	Engineering Economics	2	Jr standing	
GE 401	Professional Practice	1	Sr standing	
	Free Elective (1)	1		
Total		16		

SENIOR SPRING		STATUS	PREREQ	NOTES
BME 4863	Biomedical Engineering Des II	3	BME 4853	
MA 393	Probability & Statistics	3	MA 213	
	Humanities Elective (6)**	6		
	Social Sciences Elective (3)	3		
Total		15		

** One elective restricted to PHL 313