

Biomedical Engineering Curriculum/Template - Summer Arch

First Year					
Fall			Spring		
CHEM-1100	Chemistry I	4	ENGR-1300	Engineering Processes	1
ENGR-1100	Intro to Engineering Analysis	4	BIOL-2120	Intro to Cell & Molecular Biology	4
ENGR-1200	Eng. Graphics and CAD	1	MATH-1020	Calculus II	4
MATH-1010	Calculus I	4	PHYS-1100	Physics I	4
BIOL-1010	Intro to Biology	4	CHEM-1200	Chemistry II	4
17			17		

Second Year					
Fall			Spring		
CSCI-1190	Beginning Progr for Engrs	1	ENGR-2600	Modeling & Analysis of Uncertainty	3
CHEM-2250	Organic Chem I (+Lab)	4	BMED-2100	Biomaterials Science & Engineering	4
MATH-2010	Multivariable Calc. & Lin. Alg.	4	BMED-2300	Bioimaging and Bioinstrumentation	4
MATH-2400	Intro to Differential Equations	4	BMED-2540	Biomechanics	4
PHYS-1200	Physics II	4			
17			15		

Summer		
BMED-4200	Modeling of Biomedical Systems	4
CHEM-2260	Organic Chem II (+Lab)	4
BCBP-4760	Molecular Biochemistry	4
PSYCH-1200	General Psychology	4
16		

Third Year					
Fall			Spring		
Semester:					
			BMED-4500	Advanced Systems Physiology	4
			????-????	Concentration I	4
			STSS-1500	Sociology	4
			ENGR-2050	Intro To Eng Design	4
			????-????	Professional Development II	2
18					

Fourth Year					
Fall			Spring		
Semester:			Semester:		
BMED-4010	Bioeng Lab	3	BMED-4600	BME Design	3
BMED-4260	BME Product Dev & Comm	3	ENGR-4010	Professional Development III	1
????-????	Concentration II	3	????-????	Concentration IV	3
????-????	Concentration III	3	????-????	Concentration V	3
????-????	HASS Elective	3	????-????	HASS Elective	4
15			????-????	HASS Elective	4
18					