

Biomedical Engineering Curriculum

Bold = minimum grade requirement of C-

FIRST YEAR			
FALL	CR	SPRING	CR
Freshman Clinic 1 (ENGR 01.101)	2	Freshman Clinic 2 (ENGR 01.102)	2
Chemistry I (CHEM 06100)	4	Calculus II (MATH 01.131)	4
Calculus I (MATH 01.130)	4	Introductory Mechanics (PHYS 00220)	4
Intro to Sci. Programming (CS01.104) & <i>General Education</i>	3	Chemistry II (CHEM 06101)	4
	3	College Comp I (COMP 01111)	3
TOTAL	16	TOTAL	17

SECOND YEAR			
FALL	CR	SPRING	CR
Foundations in Bio for Biomed Sci I (BIOL 01205)	4	Foundations in Bio for Biomed Sci II (BIOL 01206)	4
Calculus III (MATH 01.230)	4	Math for Engrg Analysis (MATH 01.235)	4
Sophomore Clinic 1 (ENGR 01.201)	4	Sophomore Clinic 2 (ENGR 01.202)	4
Intro to Electr & Magn (PHYS 02.222)	4	Chemical Fdns. in BME (BME 11.201)	4
TOTAL	16	TOTAL	16

THIRD YEAR			
FALL	CR	SPRING	CR
Physiological Fdns in BME (BME 11.301)	4	Physiology or Chemistry Elective %%	4
Mechanical Fdns in BME (BME 11.303)	4	CCF Course 1*	3
Electrical Foundations in BME (BME 11.302)	4	Statistics for Biomedical Sciences (STAT 02284)	3
Junior Clinic (ENGR 01.303)	2	Princ. Biomedical Systems & Devices (ECE 09404)	3
<i>General Education</i>	3	Junior Clinic (ENGR 01.303)	2
TOTAL	17	TOTAL	15

FOURTH YEAR			
FALL	CR	SPRING	CR
CCF Course 2*	3	CCF Course 5*	3
CCF Course 3*	3	CCF Course 6*	3
CCF Course 4*	3	BioTech/ Science Elective	3
Sim, Model, and Control in Biomed Sys (BME 11.411)	2	Biomedical Ethics (PHIL 09341)**	3
Entrepr. and Innov (ENT06.240)***	3	<i>General Education</i>	3
Senior Clinic (WI) (ENGR 01.403)	2	Senior Clinic (WI) (ENGR 01.403)	2
		Biomedical Engineering Seminar (BME 11.100)	0
TOTAL	16	TOTAL	17

TOTAL 130

& Students interested in Computer Science may elect to take CS 04.103: Computer Science and Programming instead of CS 01.104

&& *Organic Chemistry I (CHEM 07.200) or Human Anatomy & Physiology (BIOL 10.210)*

* CCF= Core Competency Focus Course - See CCF Guidelines

**satisfies 3 cr general education credits in HHL (History Humanities Language)

***satisfies 3 cr general education credits in SBS (Social Behavioral Sciences)