

## 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	<b>Calculus II (MATH 01.131)</b>	4
<b>Calculus I (MATH 01.130)</b>	4	Introductory Mechanics (PHYS 00220)	4
College Comp I (COMP 01111)	3	Chemistry II (CHEM 06101)	4
<i>General Education</i>	3	Intro to Sci. Programming (CS01.104)	3
<b>TOTAL</b>	16	<b>TOTAL</b>	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 0120)	4
<b>Calculus III (MATH 01.230)</b>	4	<b>Math for Engrg Analysis (MATH 01.235)</b>	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 00210)	4
<b>TOTAL</b>	16	<b>TOTAL</b>	16

THIRD YEAR			
FALL	CR	SPRING	CR
ST in BME: Physiological Fdns (BME 00390)	4	Physiology or Chemistry Elective	4
ST in BME: Mechanical Fdns in BME (BME 003)	4	Tissue Engineering & Biomaterials	3
ST in BME: Electrical Foundations in BME (BME 0)	4	Biostatistics	3
Junior Clinic (ENGR 01.301)	2	Bioinstrumentation (ECE 09404)	3
<i>General Education</i>	3	Junior Clinic (ENGR 01.302)	2
<b>TOTAL</b>	17	<b>TOTAL</b>	15

FOURTH YEAR			
FALL	CR	SPRING	CR
Bioengineering Elective 1	3	Bioengineering Elective 2	3
Simulation in Biomed Systems	2	Bioengineering Elective 3	3
Biomechanics (ME 10470)	3	BioTech/ Science Elective	3
Entrepr. and Innov (ENT06.240)*	3	Biomedical Ethics (PHIL 09341)**	3
Biomedical Signal Proc & Modeling	3	<i>General Education</i>	3
Senior Clinic (ENGR 01.401)	2	Senior Clinic (WI) (ENGR 01.402)	2
		Engineering Frontiers Seminar	0
<b>TOTAL</b>	16	<b>TOTAL</b>	17

### TOTAL 130

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

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