Department of Biomedical Engineering Curriculum Form
[Students Entering: Fall 2009 - Present]

Student's Name: _____ NJIT ID# _____
Track: PreMed-Biomaterials Year Entered: _____ Date: _____

A minimum of 133 credits, including a minimum of 50 engineering credits, are required for a BS in BME Degree.

Superscript Legend:A - Fall, Spring, & Summer, B - Fall & Spring, F - Fall Only, S - Spring Only
BME 30X[1] = (BME 301 OR BME 302), BME 30X[2] = (BME 304)
Courses connect by a thick black bar are interchangeable between the indicated semesters
The (XXX) following each Course ID indicates the number of hours of lecture, hours of lab, and the total number of course credits, respectively

Freshman	Fall	MATH 111 (404) Calculus I Prereq = None	PHYS 111 (303) Physics I Prereq = None	PHYS 111A (021) Physics I Lab Prereq = None	CHEM 125 (303) Chemistry I Prereq = None	HUM 101 (303) Eng. Comp. I Prereq = None	BME 101 (100) F Intro to BME Prereq = None	BME 111 Intro Human Phys Prereq = None
	Spring	MATH 112 (404) Calculus II MATH 111	PHYS 121 (303) Physics II PHYS 111	PHYS 121A (021) Physics II Lab MATH 111 & PHYS 111	CHEM 124 (021) Chemistry Lab CHEM 125	CHEM 126 (303) Chemistry II CHEM 125	HUM 102 (303) Eng. Comp. II HUM 101	FED 101 (212) A Fund Engr Design Prereq = None
Sophomore	Fall	MATH 211 (303) Calculus III MATH 112	MATH 279 (202) Prob & Stats (or Math 333) MATH 112	CS 101 or BIOINF 135 (3.0.3) Comp Program Prereq = None	STS210 GUR (303) Psychology HUM 102	BME 301 (413) C in MATH 112 , PHYS 121	BME 304(413) C in BME 111, CHEM 126	R120:101 (334) Biology 1 Rutgers + Lab Prereq = None
	Spring 17	MATH 222 (404) Diff. Equations MATH 112	CHEM 243 (303) Organic Chemistry I CHEM 126	STS221 GUR (303) Sociology Prereq = None	PE 1xx/2xx (011) Prereq = None	BME 302(413) C in MATH 112 , PHYS 121	R120:102 (334) Biology 2 Rutgers + Lab	
Junior	Fall 17	MATH 337 (303) Linear Algebra MATH 112	CHEM 244 (303) Organic Chemistry II CHEM 243	CHE 210 (302) Chemical Proc. Calc. I CHEM 126	MTSE 301 (303) Princ. Mat. Sci. & Eng. CHEM 126, MATH 112, & PHYS 121	BME 310 (313) A Biomed Computing C in BME 111, BME 301 and CS 101		
	Spring 16	Chem 473 Biochemistry 1 Chem 244 with C or better	CHE 230 (303) Chem. Eng. Thermo.	BME 420 (303) S Adv. Biomat. Science BME 302, BME 304, MATH 222, & MTSE 301	BME 382 (233) B Eng Mod. Phys Sys BME 301, BME 302, & MATH 222, C in BME111	PE 1xx/2xx (011) Prereq = None	BME 385 (143) B Cell & Biomat Eng. Lab (BME 303 OR Bio II), BME 304 MATH 279, C in MATH112 & PHYS 121	
Senior	Fall 18	3__ (303) LIT/HIS/PHIL/STS HUM 102 & HUM/HIST 2xx	Eng Elect (303) Various	HUM 3__ (303) Open GUR HUM 102 & HUM/HIST 2xx	BME 383 (143) A Meas Lab Phys Sys BME 302, BME 310, & MATH 279	BME 430 (303) F Tissue Engineering BME 420	BME 495 (233) F Capstone Design I BME 372 OR MTSE 301 OR (MECH 236 & MECH 320)	HIST 2xx (303) (ECON & STS - None) EPS - HUM 102
	Spring 15	HSS GUR (303) HUM 102 & HUM/HIST 2xx	MGMT 390 (303) Principles Of MGMT Junior Standing	BME 422 (303) S Biomat. Characteriz. C in MATH112 & PHYS 121 BME 304 & MTSE 301	BME 427 (303) S Biotransport CHE 230 & MATH 222	BME 496 (143) S Capstone Design II BME 495		

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Student's Signature / Date Adviser's Signature / Date

Revised: 5/24/13