

NEW JERSEY INSTITUTE OF TECHNOLOGY
 Department of Biomedical Engineering
 Curriculum Form
 Biomaterials Track *[Students Entering Fall 2014 - present]*

NAME: _____ ID# _____ YEAR ENTERED: _____ DATE: _____

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

Freshman	FALL	16-17 Credits	MATH 111 (4.0.4) Calculus I Prereq = None	PHYS 111 (3.0.3) Physics I Prereq = None	PHYS 111A (0.2.1) Physics I Lab Prereq = None	CHEM 125 (3.0.3) Chemistry I Prereq = None	HUM 101 (3.0.3) Eng. Comp. I Prereq = None	BME 101 (1.0.0)^F Intro to BME Prereq = None	BME 111 (3.0.3)^A Intro Human Phys Prereq = None
	SPRING	17-18 Credits	MATH 112 (4.0.4) Calculus II MATH 111	PHYS 121 (3.0.3) Physics II PHYS 111	PHYS 121A (0.2.1) Physics II Lab MATH 111 & PHYS 111	CHEM 124 (0.2.1) Chemistry Lab CHEM 125	CHEM 126 (3.0.3) Chemistry II CHEM 125	HUM 102 (3.0.3) Eng. Comp. II HUM 101	FED 101 (2.1.2)^A Fund Engr Design Prereq = None
Sophomore	FALL	17 Credits	MATH 211 (3.0.3) Calculus III MATH 112	MATH 279 (2.0.2) Prob & Stats MATH 112	CS 101 (3.0.3) Comp Program Prereq = None	HUM/HIS 2__(3.0.3) HIST GUR HUM 102	BME 301 (1.4.3)^B Fundament. BME C in BME 111, MATH 112, & PHYS 121	BME 303 (1.4.3)^B Fundament. BME C in BME 111, CHEM 126, & PHYS 121	CRS ID: Title (XXX) Prereq = None
	SPRING	17 Credits	MATH 222 (4.0.4) Diff. Equations MATH 112	CHEM 243 (3.0.3) Organic Chemistry I CHEM 126	__ 2 __ (3.0.3) SS LL GUR: ECON/EPS/STS None OR HUM 102	PE 1_/2_ (0.1.1) Physical Education Prereq = None	BME 302 (1.4.3)^B Fundament. BME C in BME 111, MATH 112, & PHYS 121	BME 304 (1.4.3)^B Fundament. BME C in BME 111, CHEM 126, & PHYS 121	CRS ID: Title (XXX) Prereq = None
Junior	FALL	17 Credits	MATH 337 (3.0.3) Linear Algebra MATH 112	CHEM 244 (3.0.3) Organic Chemistry II CHEM 243	CHE 210 (3.0.2) Chemical Proc. Calc. I CHEM 126	CHE 210W (0.1.0) Chem Proc. Calc Work. Prereq = None	MTSE 301 (3.0.3) Princ. Mat. Sci. & Eng. CHEM 126, MATH 112, & PHYS 121	__ 2 __ (3.0.3) SS LL GUR: ECON/EPS/STS 2XX None OR HUM 102	BME 310 (3.1.3)^A Biomed Computing C in BME 301 & CS 101
	SPRING	16 Credits	HUM 3__ (3.0.3) HUM GUR: open HUM HUM 102 & HUM/HIST 2xx	CHE 230 (3.0.3) Chem. Eng. Thermo. 	CHE 230W (0.1.0) Chem Eng Therm. Work. CHEM 126, MATH 112, & PHYS 111	BME 382 (2.3.3)^A Eng Mod. Phys Sys BME 301, BME 302, & MATH 222	PE 1_/2_ (0.1.1) Physical Education Prereq = None	BME 385 (1.4.3)^B Cell & Biomat Eng. Lab BME 304 & MATH 279	BME 420 (3.0.3)^S Adv. Biomat. Science BME 302, BME 304, MATH 222, & MTSE 301
Senior	FALL	18 Credits	MGMT 390 (3.0.3) Principles Of MGMT Junior Standing	__ __ (3.0.3) Eng Track Elective Various	__ __ (3.0.3) NonEng Track Elect Various	BME 383 (1.4.3)^A Meas Lab Phys Sys BME 302, BME 310, & MATH 279	BME 430 (3.0.3)^F Tissue Engineering BME 302, (BME 303 or R120:102), BME 304, MATH 222, MTSE 301	BME 495 (2.3.3)^F Capstone Design I BME 372 OR MTSE 301 OR (MECH 236 & MECH 320)	CRS ID: Title (XXX) Prereq = None
	SPRING	15 Credits	HSS 4__ (3.0.3) HSS GUR HUM 102 & HUM/HIST 2xx	__ 3 __ (3.0.3) HUM GUR: LIT/HIS/PHIL/STS HUM 102 & HUM/HIST 2xx	BME 422 (3.0.3)^S Biomat. Characteriz. BME 304 & MTSE 301	BME 427 (3.0.3)^S Biotransport CHE 230 & MATH 222	BME 496 (1.4.3)^S Capstone Design II BME 495	CRS ID: Title (XXX) Prereq = None	CRS ID: Title (XXX) Prereq = None

Student's Signature / Date

Adviser's Signature / Date

Pairs of courses with yellow in between them are interchangeable between the indicated semesters

Superscript Legend: A - Fall, Spring, & Summer, B - Fall & Spring, F - Fall Only, S - Spring Only