

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.

<b>Freshman</b>	<b>FALL</b> 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) <sup>F</sup> Intro to BME  Prereq = None	BME 111 (3.0.3) <sup>A</sup> Intro Human Phys  Prereq = None	
	<b>SPRING</b> 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) <sup>A</sup> Fund Engr Design  Prereq = None	
<b>Sophomore</b>	<b>FALL</b> 17 Credits	MATH 211 (3.0.3) Calculus III  MATH 112	MATH 279 (2.0.2) or MATH 333 (3.0.3) Prob & Stats  MATH 112	CS 101 or BIOINF 135 (3.0.3) Comp Program  Prereq = None	HUM/HIS 2____(3.0.3) HIST GUR  HUM 102	BME 301 (1.4.3) <sup>B</sup> Fundament. BME  C in MATH 112, PHYS 121	BME 303 (1.4.3) <sup>B</sup> Fundament. BME  C in BME 111, CHEM 126	CRS ID: Title (XXX)  Prereq = None	
	<b>SPRING</b> 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	--- OR ---	--- OR ---	BME 302 (1.4.3) <sup>B</sup> Fundament. BME  C in MATH 112, PHYS 121	BME 304 (1.4.3) <sup>B</sup> Fundament. BME  C in BME 111, CHEM 126
<b>Junior</b>	<b>FALL</b> 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	BME 310 (3.1.3) <sup>A</sup> Biomed Computing  C in BME 111, C in BME301 & CS 101	MTSE 301 (3.0.3) Princ. Mat. Sci. & Eng.  CHEM 126, MATH 112, & PHYS 121	____2____(3.0.3) SS LL GURECON/EPS/STS 2XX  None OR HUM 102		
	<b>SPRING</b> 16 Credits	HUM 3____(3.0.3) HUM GUR: open HUM  HUM 102 & HUM/HIST 2xx	CHE 230 (3.0.3) Chem. Eng. Thermo.  	BME 420 (3.0.3) <sup>S</sup> Adv. Biomat. Science  BME 302, BME 304, MATH 222, & MTSE 301	BME 382 (2.3.3) <sup>A</sup> Eng Mod. Phys Sys  BME 301, BME 302, & U <sup>+</sup> U <sup>-</sup> # <sup>+</sup> # <sup>-</sup> U <sup>-</sup>	PE 1____/2____(0.1.1) Physical Education  Prereq = None	BME 385 (1.4.3) <sup>B</sup> Cell & Biomat Eng. Lab  BME 301, BME 302, & U <sup>+</sup> U <sup>-</sup> # <sup>+</sup> # <sup>-</sup> U <sup>-</sup>		
<b>Senior</b>	<b>FALL</b> 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) <sup>A</sup> Meas Lab Phys Sys  BME 302, BME 310, & MATH 279	BME 430 (3.0.3) <sup>F</sup> Tissue Engineering  BME 302, (BME 303 or R120:102), BME 304, MATH 222, MTSE 301	BME 495 (2.3.3) <sup>F</sup> Capstone Design I  BME 372 OR MTSE 301 OR (MECH 236 & MECH 320)	CRS ID: Title (XXX)  Prereq = None	
	<b>SPRING</b> 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) <sup>S</sup> Biomat. Characteriz.  # <sup>+</sup> U <sup>+</sup> U <sup>-</sup> # <sup>-</sup> U <sup>-</sup> h <sup>+</sup> o <sup>+</sup> BME 304 & MTSE 301	BME 427 (3.0.3) <sup>S</sup> Biotransport  CHE 230 & MATH 222	BME 496 (1.4.3) <sup>S</sup> 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