

NEW JERSEY INSTITUTE OF TECHNOLOGY
 Department of Biomedical Engineering
 Curriculum Form
 Biomechanics 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	MECH 236 (2.0.2) Dynamics MECH 234 OR MECH 235 (OR BME 302)	MECH 320 (3.0.3) Statics & Strength MATH 112 & PHYS 111	MGMT 390 (3.0.3) Principles Of MGMT Junior Standing	____ 2 ____ (3.0.3) SS LL GUR: ECON/EPS/STS None OR HUM 102	BME 310 (3.1.3)^A Biomed Computing C in BME 301 & CS 101	CRS ID: Title (XXX) Prereq = None
	SPRING 16 Credits	HUM 3 ____ (3.0.3) Open Hum 3xx HUM 102 & HUM/HIST 2xx	PE 1 ____/2 ____ (0.1.1) Physical Education Prereq = None	BME 351 (3.0.3)^S Intro Biofluid Mech BME 302, MECH 236, & MECH 320	BME 382 (2.3.3)^A Eng Mod. Phys Sys BME 301, BME 302, & MATH 222	BME 384 (1.4.3)^S Biomechanics Lab BME 302, MATH 279, MECH 236, MECH 320, & CS 101	____ (3.0.3) Eng Track Elective Various	CRS ID: Title (XXX) Prereq = None
Senior	FALL 18 Credits	3 ____ (3.0.3) HUM GUR: LIT/HIST/PHIL/STS HUM 102 & HUM/HIST 2xx	____ (3.0.3) Eng Track Elective Various	____ (3.0.3) Non-Eng Track Elect. Various	BME 383 (1.4.3)^A Meas Lab Phys Sys BME 302, BME 310, & MATH 279	BME 451 (3.0.3)^F Biomechanics I MECH 236 & MECH 320	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	____ (3.0.3) Non-Eng Track Elect. Various	BME 452 (3.0.3)^S Mech. B&P of Biomat. BME 302, BME 304, MATH 222, MATH 337, & MECH 320	BME 478 (3.0.3)^S Intro CAD for Biomech BME 302 & MECH 320	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