Bachelor of Engineering - Students Entering 2019 Fall

☐ Study Plan / ☐ Application for Candidacy (check one)

(Appropriate for students who intend to apply to medical school)

Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030
Office of the Registrar
201.216.5210
FAX 201.216.8030

Name: _____ ID: _____ Class: _____ Box S-_____ E-mail: _____

Major Concentration Field: Biomedical Engineering Secondary Concentration Field: _____

Instructions Please print or type. The primary purpose of this form is to lay out the courses required to complete your degree program and when you expect to take each of them. You may then use it to track your own progress to the degree. You should revise it as needed. Please indicate the term when you expect to take each course (e.g., 2020F, 2021S, etc.). Roman numerals indicate the standard curriculum time schedule. If a choice of courses is given for a requirement, circle the appropriate course number. For electives, fill in the course number. Any courses taken elsewhere should be marked **TR**. An additional study plan will be required if you wish to receive a minor or a second degree.

Term		Course	Credits	Grade
		TERM I		
I		CH 115 - General Chemistry I	3.0	
I		CH 117 - General Chemistry Laboratory I	1.0	
I		E 101 - Engineering Experience I	1.0	
I		E 115 - Introduction to Programming	2.0	
I		E 120 - Engineering Graphics	1.0	
I		E 121 - Engineering Design I	2.0	
I		MA 121 – Differential Calculus	2.0	
I		MA 122 – Integral Calculus	2.0	
I		CAL 103 - CAL Colloquium	3.0	
		TERM II		
II		CH 116 - General Chemistry II	3.0	
II		CH 118 - General Chemistry Laboratory II	1.0	
II		E 122 - Engineering Design II	2.0	
II		MA 123 - Series, Vectors and Surfaces	2.0	
II		MA 124 - Calculus of Two Variables	2.0	
II		PEP 111 - Mechanics	3.0	
II		MGT 103 - Introduction to Entrepreneurial Thinking	2.0	
II		CAL 105 CAL Colloquium	3.0	

Term		Course	Credits	Grade
		TERM III		
III		E 126 - Mechanics of Solids	4.0	
III		E 231 - Engineering Design III	2.0	
III		E 245 - Circuits and Systems	3.0	
III		MA 221 - Differential Equations	4.0	
III		PEP 112 - Electricity and Magnetism	3.0	
III		Humanities [1] _____	3.0	
		TERM IV		
IV		BME 306 - Introduction to Biomedical Engineering	3.0	
IV		BIO 281 - Biology and Biotechnology (no Lab)	3.0	
IV		E 232 - Engineering Design IV	3.0	
IV		E 234 - Introduction to Thermodynamics	3.0	
IV		E 344 - Materials Processing	3.0	
IV		MA 227 - Multivariate Calculus	3.0	

Student Signature: _____ Date: _____ ☐ Original ☐ Revision

Faculty Advisor Signature: _____ Date: _____ ☐ 2nd Degree

UG Records Auditor: _____ Date: _____

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Term	Course	Credits	Grade
	TERM V		
V	BME 322 - Engineering Design VI	2.0	
V	BME 342 - Transport in Biological Systems	4.0	
V	CH 243 - Organic Chemistry I	3.0	
V	CH 245 - Organic Chemistry Laboratory I	1.0	
V	BIO 381 Cell Biology	4.0	
V	E 243 - Probability & Statistics for Engineers	3.0	
V	Humanities [1] _____	3.0	
	TERM VI		
VI	BME 460 - Digital Signal Processing	2.0	
VI	BME 505 - Biomaterials	3.0	
VI	BME 506 - Biomechanics	3.0	
VI	E 321 - Engineering Design V	2.0	
VI	E 355 - Engineering Economics	4.0	
VI	General Elective [2] _____	3.0	

Term	Course	Credits	Grade
	TERM VII		
VII	BME 423 - Senior Design I	3.0	
VII	BME 482 - Engineering Physiology	4.0	
VII	BME 504 - Medical Instrumentation & Imaging	3.0	
VII	BME 556 - Advanced Biomechanics	3.0	
VII	IDE 400- Senior Innovation I [5]	1.0	
VII	IDE 401 - Senior Innovation II	1.0	
VI	Humanities [1] _____	3.0	
	TERM VIII		
VIII	BME 424 - Senior Design II	3.0	
VIII	BME 445 – Biosystems Simulation & Control	4.0	
VIII	BME 453 - Bioethics	3.0	
VII	IDE 402 – Senior Innovation III	1.0	
VIII	General Elective [2] _____	3.0	
VIII	Humanities [1] _____	3.0	

Required PE Courses [3]

Term	Course	Credits	Grade	Term	Course	Credits	Grade
___	_____	PE	___	___	_____	PE	___
___	_____	PE	___	___	_____	PE	___

ADDITIONAL COURSES [4] - For medical school only; not required for the B.E.

III	PEP 221 - Physics I Lab	1.0	
IV	PEP 222 - Physics II Lab	1.0	
VI	CH 244 Organic Chemistry II [4]	3.0	
VI	CH 246 Organic Chemistry II Laboratory	1.0	

NOTES:

1. The four humanities beyond CAL 103 and 105 must cover at least two disciplines in CAL, with at least one course at the 100 or 200 level and at least one course at the 300 or 400 level.
2. General electives are courses chosen by the student. General electives can be applied towards a minor, research or approved international studies.
3. All students must complete a minimum of four semesters of Physical Education (P.E.) in non-repeating courses. No credit or grades are awarded for P.E. classes. Participation in varsity or club sports may be used to satisfy all four of the Physical Education requirements.
4. Additional courses are courses beyond the B.E. requirements that may be applied toward a minor or a graduate degree (mark GD) or may be extra courses (e.g. for medical school or from change in field of study; mark XT) Students considering medical school may take CH 244 as a general elective in term VI, in which case it should not be listed as an additional course.
5. Biomedical Engineering students should take IDE 400 concurrently with IDE 401, in Term VII

☐ Original ☐ Revision

☐ 2nd Degree

Gray Sequence (July 2018)

Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____

UG Records Auditor: _____ Date: _____