



Bachelor of Engineering - Students Entering 2018 Fall

Study Plan / Application for Candidacy (check one)

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., 2003F, 2004S, 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	Course	Credits	Grade
<u>TERM I</u>				<u>TERM III</u>			
I	_____ CH 115 - General Chemistry I	3.0	_____	III	_____ E 126 - Mechanics of Solids	4.0	_____
I	_____ CH 117 - General Chemistry Laboratory I	1.0	_____	III	_____ E 231 - Engineering Design III	2.0	_____
I	_____ E 101 - Engineering Experience I	1.0	_____	III	_____ E 245 - Circuits and Systems	3.0	_____
I	_____ E 115 - Introduction to Programming	2.0	_____	III	_____ MA 221 - Differential Equations	4.0	_____
I	_____ E 120 - Engineering Graphics	1.0	_____	III	_____ PEP 112 - Electricity and Magnetism	3.0	_____
I	_____ E 121 - Engineering Design I	2.0	_____	III	_____ Humanities ¹ _____	3.0	_____
I	_____ MA 121 – Differential Calculus	2.0	_____	<u>TERM IV</u>			
I	_____ MA 122 – Integral Calculus	2.0	_____	IV	_____ BME 306 - Introduction to Biomedical Engineering	3.0	_____
I	_____ CAL 103 - CAL Colloquium	3.0	_____	IV	_____ BIO 281 - Biology and Biotechnology (no Lab)	3.0	_____
<u>TERM II</u>				IV	_____ E 232 - Engineering Design IV	3.0	_____
II	_____ CH 116 - General Chemistry II	3.0	_____	IV	_____ E 234 - Introduction to Thermodynamics	3.0	_____
II	_____ CH 118 - General Chemistry Laboratory II	1.0	_____	IV	_____ E 344 - Materials Processing	3.0	_____
II	_____ E 122 - Engineering Design II	2.0	_____	IV	_____ MA 227 - Multivariate Calculus	3.0	_____
II	_____ MA 123 - Series, Vectors and Surfaces	2.0	_____	NOTE: This course sequence is not appropriate for premedical students. If planning on medical school, follow Gray course sequence.			
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	_____				

Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____

UG Records Auditor: _____ Date: _____

Original Revision
 2nd Degree



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Term	Course	Credits	Grade	Term	Course	Credits	Grade
<u>TERM V</u>				<u>TERM VII</u>			
V	BME 460 - Digital Signal Processing	2.0	_____	VII	BME 423 - Senior Design I	3.0	_____
V	BME 505 - Biomaterials	3.0	_____	VII	BME 482 - Engineering Physiology	4.0	_____
V	BME 506 - Biomechanics	3.0	_____	VII	BME 453 - Bioethics	3.0	_____
V	BIO 381 - Cell Biology	4.0	_____	VII	CH 243 - Organic Chemistry I	3.0	_____
V	E 243 - Probability & Statistics for Engineers	3.0	_____	VII	CH 245 - Organic Chemistry Laboratory I	1.0	_____
V	E 321 Eng. Design V or Humanities ¹	2.0 or 3.0	_____	VII	IDE 400- Senior Innovation I ⁵	1.0	_____
<u>TERM VI</u>				VII	IDE 401 - Senior Innovation II	1.0	_____
VI	BME 322 - Engineering Design VI	2.0	_____	VII	Humanities ¹	3.0	_____
VI	BME 342 - Transport in Biological Systems	4.0	_____	<u>TERM VIII</u>			
VI	BME 556 - Advanced Biomechanics	3.0	_____	VIII	BME 424 - Senior Design II	3.0	_____
VI	E 355 - Engineering Economics	4.0	_____	VIII	BME 445 - Biosystems Simulation & Control	4.0	_____
VI	Humanities ¹ _____ or E 321 Eng. Design V	3.0 or 2.0	_____	VIII	BME 504 - Medical Instrumentation & Imaging	3.0	_____
VI	General Elective ² _____	3.0	_____	VIII	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	_____

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. Four PE courses are required for graduation. Up to three terms of varsity athletics may be applied towards the PE requirement.
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).
5. Biomedical Engineering student should take IDE 400 concurrently with IDE 401, in Term VII.

ADDITIONAL COURSES ⁴

Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____

UG Records Auditor: _____ Date: _____

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