



# Bachelor of Engineering - Students Entering 2019 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., 2019F, 2020S, 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
<b><u>TERM I</u></b>				<b><u>TERM III</u></b>			
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 <sup>1</sup> _____	3.0	_____
I	_____ MA 121 – Differential Calculus	2.0	_____	<b><u>TERM IV</u></b>			
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	_____
<b><u>TERM II</u></b>				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  
 2<sup>nd</sup> Degree



# Bachelor of Engineering - Students Entering 2019 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: \_\_\_\_\_

Term	Course	Credits	Grade	Term	Course	Credits	Grade
<b><u>TERM V</u></b>				<b><u>TERM VII</u></b>			
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 <sup>1</sup> _____	2.0 or 3.0	_____	VII _____	IDE 400- Senior Innovation I <sup>5</sup>	1.0	_____
<b><u>TERM VI</u></b>				VII _____	IDE 401 - Senior Innovation II	1.0	_____
VI _____	BME 322 - Engineering Design VI	2.0	_____	VII _____	Humanities <sup>1</sup> _____	3.0	_____
VI _____	BME 342 - Transport in Biological Systems	4.0	_____	<b><u>TERM VIII</u></b>			
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 <sup>1</sup> _____ or E 321 Eng. Design V	3.0 or 2.0	_____	VIII _____	BME 504 - Medical Instrumentation & Imaging	3.0	_____
VI _____	General Elective <sup>2</sup> _____	3.0	_____	VIII _____	IDE 402 – Senior Innovation III	1.0	_____
				VIII _____	General Elective <sup>2</sup> _____	3.0	_____
				VIII _____	Humanities <sup>1</sup> _____	3.0	_____

**Required PE Courses** <sup>3</sup>

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. 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).
5. Biomedical Engineering student should take IDE 400 concurrently with IDE 401, in Term VII.

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Faculty Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

UG Records Auditor: \_\_\_\_\_ Date: \_\_\_\_\_

Original  Revision  
 2<sup>nd</sup> Degree