



# Bachelor of Engineering - Students Entering 2005 Fall or later

## 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
<b><u>TERM I</u></b>				<b><u>TERM III</u></b>			
I	_____ CH115/117 - General Chemistry I and Lab	4.0	_____	III	_____ E126 - Mechanics of Solids	4.0	_____
I	_____ E101 - Engineering Experience I <sup>1</sup>	1.0	_____	III	_____ E231 - Engineering Design III	2.0	_____
I	_____ E115 - Introduction to Programming	2.0	_____	III	_____ E245 - Circuits and Systems	3.0	_____
I	_____ E120 - Engineering Graphics	1.0	_____	III	_____ MA221 - Differential Equations	4.0	_____
I	_____ E121 - Engineering Design I	2.0	_____	III	_____ PEP112 - Electricity and Magnetism	3.0	_____
I	_____ MA(120) 121/122 - Calculus I (Intro) A/B	4.0	_____	III	_____ Humanities _____	3.0	_____
I	_____ CAL 103 or CAL 105 - CAL Colloquium	3.0	_____	<b><u>TERM IV</u></b>			
<b><u>TERM II</u></b>				IV	_____ BME306 - Introduction to Biomedical Engineering	3.0	_____
II	_____ CH116/118 - General Chemistry II and Lab <sup>2</sup>	4.0	_____	IV	_____ CH281 - Biology and Biotechnology (no Lab) <sup>2</sup>	3.0	_____
II	_____ E122 - Engineering Design II	2.0	_____	IV	_____ E232 - Engineering Design IV	3.0	_____
II	_____ MA123/124 - Calculus II A/B	4.0	_____	IV	_____ E234 <sup>3</sup> - Introduction to Thermodynamics	3.0	_____
II	_____ PEP111 - Mechanics	3.0	_____	IV	_____ E344 - Materials Processing	3.0	_____
II	_____ MGT103 - Introduction to Entrepreneurial Thinking <sup>1</sup>	2.0	_____	IV	_____ MA227 - Multivariate Calculus	3.0	_____
II	_____ CAL 105 or CAL 103 - CAL Colloquium	3.0	_____				

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

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

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

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



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<b><u>TERM V</u></b>				<b><u>TERM VII</u></b>			
V	BME322 - Engineering Design VI	2.0	_____	VII	BME423 <sup>3</sup> - Engineering Design VII	3.0	_____
V	BME342 <sup>3</sup> - Transport in Biological Systems	4.0	_____	VII	BME482 - Engineering Physiology <sup>3</sup>	4.0	_____
V	CH243/245 - Organic Chemistry I and Lab <sup>3</sup>	4.0	_____	VII	BME504 - Medical Instrumentation & Imaging <sup>3</sup>	3.0	_____
V	CH381 Cell Biology <sup>3</sup>	4.0	_____	VII	BME556 - Advanced Biomechanics <sup>3</sup>	3.0	_____
V	E243 - Probability & Statistics	3.0	_____	VII	TG403 - Senior Innovation I <sup>5</sup>	2.0	_____
V	Humanities _____	3.0	_____	VII	Humanities _____	3.0	_____
<b><u>TERM VI</u></b>				<b><u>TERM VIII</u></b>			
VI	BME460 - Digital Signal Processing	2.0	_____	VIII	BME424 <sup>3</sup> - Engineering Design VIII	3.0	_____
VI	BME505 - Biomaterials	3.0	_____	VIII	BME445 - Biosystems Simulation & Control <sup>3</sup>	4.0	_____
VI	BME506 - Biomechanics	3.0	_____	VIII	BME453 - Bioethics <sup>3</sup>	3.0	_____
VI	E321 - Engineering Design V	2.0	_____	VII	TG404 - Entrepreneurship Inter Eng II <sup>5</sup>	1.0	_____
VI	E355 - Engineering Economics	4.0	_____	VIII	General Elective <sup>4</sup> _____	3.0	_____
VI	General Elective <sup>4</sup> _____	3.0	_____	VIII	Humanities _____	3.0	_____

**NOTES:**

1. Credit for E101 and MGT103 earned in Term II.
2. Basic Science Elective: Some departments may have specific requirements;  
 One elective must have a laboratory component;  
 Two electives from the same field cannot be selected.
3. Discipline specific courses.
4. General Elective: Chosen by student;  
 Can be used towards a minor or option;  
 Can be applied to research or approved international studies.
5. Core Option - Specific course determined by engineering program.
6. PE Graduation Requirement: Minimum of three semester PE credits.
7. Courses beyond the B.S. requirements whether to meet minor requirements, to meet second degree requirements, to defer to graduate program (mark GD) or extra courses (e.g. from change in field of study; mark XT).

**ADDITIONAL COURSES**<sup>6,7</sup> For medical school

<u>II</u>	<u>PEP221 - Physics I Lab</u>	<u>1.0</u>	_____
<u>III</u>	<u>PEP222 - Physics II Lab</u>	<u>1.0</u>	_____
<u>VI</u>	<u>CH244/246 Organic Chemistry II and Lab</u>	<u>4.0</u>	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

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