



# Bachelor of Science – Student entering 2020 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- \_\_\_\_\_ Email: \_\_\_\_\_

Major Concentration Field: Pure and Applied Mathematics Secondary Concentration Field: \_\_\_\_\_

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 course is given for the requirement, circle the appropriate course number. For electives, fill in the course number. Any course taken elsewhere should be marked TR. An additional study plan will be required if any of you wish to receive a minor or a second degree.

Term	Course	Credits	Grade
<b>TERM I</b>			
_____	CH 115 General Chemistry I	3.0	_____
_____	CH 117 General Chemistry Lab I	1.0	_____
_____	PEP 111 Mechanics	3.0	_____
_____	CS 105 Intro to Scientific Computing <b>or</b> CS 115 Intro to Computer Science	3.0	_____
_____	MA 121 Differential Calculus	2.0	_____
_____	MA 122 Integral Calculus	2.0	_____
_____	CAL 103 <i>Writing &amp; Communication Colloq.</i> <b>or</b> CAL 105 <i>Knowledge, Nature, Culture</i>	3.0	_____
<b>TERM II</b>			
_____	CH 116 General Chemistry II	3.0	_____
_____	CH 118 General Chemistry Lab II	1.0	_____
_____	BIO 281 Biology and Biotechnology	3.0	_____
_____	MA 123 Series, Vectors, Functions and Surfaces	2.0	_____
_____	MA 124 Calculus of Two Variables	2.0	_____
_____	PEP 112 Electricity and Magnetism	3.0	_____
_____	CAL 105 <i>Knowledge, Nature, Culture</i> <b>or</b> CAL 103 <i>Writing &amp; Communication Colloq.</i>	3.0	_____

Term	Course	Credits	Grade
<b>TERM III</b>			
_____	<b>BT Economics<sup>6</sup></b>	<b>3.0</b>	_____
_____	MA 221 Differential Equations	4.0	_____
_____	PEP 221 Physics Lab I for Scientists	1.0	_____
_____	<b>GE<sup>3</sup></b>	<b>3.0</b>	_____
_____	<b>Humanities<sup>1</sup></b>	<b>3.0</b>	_____
<b>TERM IV</b>			
_____	<b>MA 227 Multivariable Calculus</b>	<b>3.0</b>	_____
_____	<b>MA 222 Probability and Statistics</b>	<b>3.0</b>	_____
_____	PEP 222 Physics Lab II for Scientists	1.0	_____
_____	<b>Thermodynamics<sup>5</sup></b>	<b>3.0</b>	_____
_____	<b>Humanities<sup>1</sup></b>	<b>3.0</b>	_____
_____	<b>MA 240 Proof and Refutations<sup>4</sup></b>	<b>3.0</b>	_____

**PE Required Courses<sup>7</sup>**

Term	Course	Credits	Grade	Term	Course	Credits	Grade
_____	PE 200	_____	PE _____	_____	PE 200	_____	PE _____
_____	PE 200	_____	PE _____	_____	PE 200	_____	PE _____

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

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

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

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



# Bachelor of Science – Student entering 2018 Fall

## Study Plan      Application for Candidacy (check one)

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Name \_\_\_\_\_ ID: \_\_\_\_\_ Class: \_\_\_\_\_ Box S- \_\_\_\_\_ Email: \_\_\_\_\_

Major Concentration Field: Pure and Applied Mathematics      Secondary Concentration Field: \_\_\_\_\_

Term	Course	Credits	Grade	Term	Course	Credits	Grade
<b>TERM V</b>				<b>TERM VII</b>			
_____	MA 232 Linear Algebra <sup>4</sup>	3.0	_____	_____	MA 410 Differential Geometry <sup>4</sup>	3.0	_____
_____	MA 331 Intermediate Statistics <sup>4</sup>	3.0	_____	_____	MA 441 Intro to Mathematical Analysis <sup>4</sup>	3.0	_____
_____	Humanities <sup>1</sup> _____	3.0	_____	_____	Technical Elective <sup>2</sup> _____	3.0	_____
_____	Technical Elective <sup>2</sup> _____	3.0	_____	_____	Humanities <sup>1</sup> _____	3.0	_____
<b>TERM VI</b>				<b>TERM VIII</b>			
_____	MA 336 Modern Algebra <sup>4</sup>	3.0	_____	_____	Humanities <sup>1</sup> _____	3.0	_____
_____	MA 346 Numerical Methods <sup>4</sup>	3.0	_____	_____	GE <sup>3</sup> _____	3.0	_____
_____	MA 234 Complex Variables with Applications <sup>4</sup>	3.0	_____	_____	Technical Elective <sup>2</sup> _____	3.0	_____
_____	PEP 242 Modern Physics	3.0	_____	_____	Technical Elective <sup>2</sup> _____	3.0	_____
_____	Humanities <sup>1</sup> _____	3.0	_____	_____	Technical Elective <sup>2</sup> _____	3.0	_____

**Notes:**

1. Humanities Requirement - Six additional humanities classes. At least one must be at the 100 or 200 level, at least one must be at the 300 or 400 level, and courses must cover at least two different disciplines within CAL.
2. Technical Elective. Pre-approved choices include (Fall: MA 134, 360, and 450), (Spring: MA 134, 230, 335, 361, 442, 499), MA 463, 503, 560. Other courses may be used with advisor's approval.
3. General Education Electives – Chosen by the student – can be any approved 3 or 4 credit course used towards a minor, major concentration, research, independent study, language courses, or a course taken during an international experience.
4. These are the Core technical courses specific to the Pure and Applied Mathematics program.
5. Thermodynamics can be either CH 321 or E 234.
6. Economics can be either BT 243 (Macro) or BT 244 (Micro). The second Economics course can be used as a upper-level humanities elective.

**Additional Courses**

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

7. PE Requirement- All students must complete a minimum of four semesters of Physical Education (P.E.) in noni repeating courses. No credit or grades are awarded for P.E. classes. Participation in varsity sports may be used to satisfy up to three credits of the P.E. requirement.

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

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

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

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