



# 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: Biology

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	Term	Course	Credits	Grade
<b>TERM I</b>				<b>TERM III</b>			
_____	CH 115 General Chemistry I	3.0	_____	_____	CH 243 Organic Chemistry I	3.0	_____
_____	CH 117 General Chemistry Laboratory I	1.0	_____	_____	CH 245 Organic Chemistry Laboratory I	1.0	_____
_____	PEP 111 Mechanics	3.0	_____	_____	BIO 381 Cell Biology	4.0	_____
_____	CS 105*Introduction to Scientific Computing	3.0	_____	_____	PEP 221 Physics Lab I for Scientists	1.0	_____
_____	MA 121 Differential Calculus	2.0	_____	_____	MA 221 Differential Equations	4.0	_____
_____	MA 122 Integral Calculus	2.0	_____	_____	Humanities <sup>1</sup> _____	3.0	_____
_____	CAL 103 <i>Writing &amp; Communication Colloquium</i>	3.0	_____	_____	PE 200 Physical Education I _____	0.0	_____
_____	CH 189 Seminar in Chemistry and Biology	1.0	_____				
<b>TERM II</b>				<b>TERM IV</b>			
_____	CH 116 General Chemistry II	3.0	_____	_____	CH 244 Organic Chemistry II	3.0	_____
_____	CH 118 General Chemistry Lab. I	1.0	_____	_____	CH 246 Organic Chemistry Laboratory II	1.0	_____
_____	BIO 281 Biology and Biotechnology	3.0	_____	_____	BIO 382 Biological Systems	3.0	_____
_____	MA 123 Series, Vectors, Functions and Surfaces	2.0	_____	_____	E 243** Probability and Statistics	3.0	_____
_____	MA 124 Calculus of Two Variables	2.0	_____	_____	PEP 222 Physics Lab II for Scientists	1.0	_____
_____	PEP 112 Electricity and Magnetism	3.0	_____	_____	CH 301 Professional Ethics in Chemical & Scientific Research	1.0	_____
_____	CAL 105 <i>Knowledge, Nature, Culture</i>	3.0	_____	_____	Humanities <sup>1</sup> _____	3.0	_____
				_____	PE 200 Physical Education II _____		_____

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

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

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

Original      Revision

2<sup>nd</sup> Degree



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Term	Course	Credits	Grade	Term	Course	Credits	Grade
<b>TERM V</b>				<b>TERM VII</b>			
_____	CH 362 Instrumental Analysis I	4.0	_____	_____	CH 496 Chemistry Project I	3.0	_____
_____	BIO 484 Introduction to Molecular Genetics	4.0	_____	_____	OR CH 498 Chemical Research I		_____
_____	CH 580 Biochemistry I	3.0	_____	_____	Humanities <sup>1</sup>	3.0	_____
_____	Humanities <sup>1</sup>	3.0	_____	_____	GE <sup>3</sup>	3.0	_____
_____	BT Economics <sup>5</sup>	3.0	_____	_____	Technical Elective <sup>2</sup>	3.0	_____
_____	BT 243 Macroeconomics OR BT 244 Microeconomics	3.0	_____	_____	Technical Elective <sup>2</sup>	3.0	_____
_____	PE200 Physical Education III	0.0	_____	<b>TERM VIII</b>			
<b>TERM VI</b>				_____	CH 497 Chemistry Project II	3.0	_____
_____	CH 321 Thermodynamics	3.0	_____	_____	OR CH 499 Chemical Research II		_____
_____	OR CH 461 Instrumental Analysis II		_____	_____	Humanities <sup>1</sup>	3.0	_____
_____	CH 581 Biochemistry II	3.0	_____	_____	PEP 242 Modern Physics	3.0	_____
_____	Humanities <sup>1</sup>	3.0	_____	_____	GE <sup>3</sup>	3.0	_____
_____	Technical Elective <sup>2</sup>	3.0	_____	_____	Technical Elective <sup>2</sup>	3.0	_____
_____	GE <sup>3</sup>	3.0	_____				
_____	PE 200 Physical Education IV	0.0	_____				
_____	CH 398 Research Proposal for UG	1.0	_____				

### Notes:

1. Humanities Requirement - Three 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 Electives to be selected from available BIO 3XX, 4XX, and 5XX course offerings.
3. General Education Electives – Chosen by the student – can be used towards a minor or option- can be applied to research or approved international studies.
4. These courses are the Core major courses for the Biology program.
5. Economics can be either BT 243 (Macro) or BT 244 (Micro)
6. PE Requirement- 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 and club sports may be used to satisfy all four of the Physical Education requirements.

\*-CS115 is an acceptable substitution \*\*-MA222 is an acceptable substitution

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

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

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

Date: \_\_\_\_\_