



# Bachelor of Science– Student entering 2018 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- \_\_\_\_\_ Email: \_\_\_\_\_

Major Concentration Field: Chemical 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., 2013F, 2014S, 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       | 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     | _____ |                 |  |         |       |
| <b>TERM II</b> |   |         |       | <b>TERM IV</b>  |  |         |       |
| _____          | CH 116 General Chemistry II                           | 3.0     | _____ | _____           | PEP 222 Physics Lab II for Scientists                        | 1.0     | _____ |
| _____          | CH 118 General Chemistry Lab. I                       | 1.0     | _____ | _____           | BIO 382 Biological Systems                                   | 3.0     | _____ |
| _____          | BIO 281 Biology and Biotechnology                     | 3.0     | _____ | _____           | CH 244 Organic Chemistry II                                  | 3.0     | _____ |
| _____          | MA 123 Series, Vectors, Functions and Surfaces        | 2.0     | _____ | _____           | CH 246 Organic Chemistry Laboratory II                       | 1.0     | _____ |
| _____          | MA 124 Calculus of Two Variables                      | 2.0     | _____ | _____           | CH 321 Thermodynamics  | 3.0     | _____ |
| _____          | PEP 112 Electricity and Magnetism                     | 3.0     | _____ | _____           | CH 501 Professional Ethics in Chemical & Scientific Research | 1.0     | _____ |
| _____          | CAL 105 <i>Knowledge, Nature, Culture</i>             | 3.0     | _____ | _____           | Humanities <sup>1</sup> _____                                | 3.0     | _____ |

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

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

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

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



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Major Concentration Field: Chemical Biology

Secondary Concentration Field: \_\_\_\_\_

| Term           | Course   | Credits | Grade | Term             | Course                         | Credits | Grade |
|----------------|--|---------|-------|------------------|--------------------------------|---------|-------|
| <b>TERM V</b>  |  |         |       | <b>TERM VII</b>  |                                |         |       |
| _____          | CH 362 Instrumental Analysis I                 | 4.0     | _____ | _____            | CH 421 Dynamics                | 4.0     | _____ |
| _____          | BIO 484 Introduction to Molecular Genetics     | 4.0     | _____ | _____            | CH 496 Chemistry Project I     | 3.0     | _____ |
| _____          | CH 580 Biochemistry I                          | 3.0     | _____ | _____            | OR CH 498 Chemical Research I  |         |       |
| _____          | Humanities <sup>1</sup> _____                  | 3.0     | _____ | _____            | CH 583 Physiology              | 3.0     | _____ |
| _____          | BT 244 Microeconomics                          | 3.0     | _____ | _____            | GE <sup>3,5</sup> _____        | 3.0     | _____ |
|                |  |         |       | _____            | Humanities <sup>1</sup> _____  | 3.0     | _____ |
| <b>TERM VI</b> |  |         |       | <b>TERM VIII</b> |                                |         |       |
| _____          | CH 461 Instrumental Analysis II                | 4.0     | _____ | _____            | Humanities <sup>1</sup> _____  | 3.0     | _____ |
| _____          | CH 581 Biochemistry II                         | 3.0     | _____ | _____            | CH 582 Biophysical Chemistry   | 3.0     | _____ |
| _____          | E 243 Probability & Statistics for Engineers** | 3.0     | _____ | _____            | CH 497 Chemistry Project II    | 3.0     | _____ |
| _____          | PEP 242 Modern Physics                         | 3.0     | _____ | _____            | OR CH 499 Chemical Research II |         |       |
| _____          | Humanities <sup>1</sup> _____                  | 3.0     | _____ | _____            | TE <sup>2,5</sup> _____        | 3.0     | _____ |
|                |  |         |       | _____            | GE <sup>3,5</sup> _____        | 3.0     | _____ |

**Additional Courses**

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

**PE Required Courses<sup>6</sup>**

| Term  | Course       | Credits | Grade | Term  | Course       | Credits | Grade |
|-------|--------------|---------|-------|-------|--------------|---------|-------|
| _____ | PE 200 _____ | PE      | _____ | _____ | PE 200 _____ | PE      | _____ |
| _____ | PE 200 _____ | PE      | _____ | _____ | PE 200 _____ | PE      | _____ |

**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. Chemical Biology Technical Elective to be selected from available CH or BIO 4XX & 5XX course offerings. Immunology is one of the recommended courses.
  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 international experience.
  4. These courses are the Core major courses for the Chemical Biology program.
  5. If pursuing ACS certification, a TE or GE should be CH 412 Inorganic Chemistry I
  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 sports may be used to satisfy up to three credits of the P.E. requirement.
- \* - CS115 is an acceptable substitution  
 \*\*-MA222 is an acceptable substitution

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

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

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

Revised October 2018