



# Bachelor of Engineering – Student entering 2022 Fall

Stevens Institute of Technology  
Castle Point on Hudson  
Hoboken, NJ 07030  
Office of the Registrar  
201.216.5210  
FAX 201.216.8030

Study Plan     Application for Candidacy (check one)

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

Major Concentration Field: Industrial and Systems Engineering    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., 2019F, 2020S, 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	_____	_____	ENGR 211 Statics & Intro to Eng Mech	4.0	_____
_____	CH 117 General Chemistry Laboratory	1.0	_____	_____	ENGR 245 Circuits and Systems	2.0	_____
_____	ENGR 116 Introduction to Programmimg	3.0	_____	_____	MA 221 Differential Equations	3.0	_____
_____	ENGR 111 Intro to Engineering Design	4.0	_____	_____	PEP 112 Electricity and Magnetism	4.0	_____
_____	MA 121 Differential Calculus	2.0	_____	_____	<b>ISE 224 Informatics &amp; Software Development</b>	<b>3.0</b>	_____
_____	MA 122 Integral Calculus	2.0	_____				
_____	CAL 103 <i>Writing &amp; Communication Colloquium</i>	3.0	_____				

<b>TERM II</b>			
_____	<b>Science Elective<sup>2</sup></b>	<b>3.0</b>	_____
_____	ENGR 122 Engineering Design II	2.0	_____
_____	MA 125 Vectors and Surfaces	2.0	_____
_____	MA 126 Calculus of MultiVariables	2.0	_____
_____	MGT 103 Intro to Entrepreneurial Thinking	2.0	_____
_____	PEP 111 Mechanics	3.0	_____
_____	CAL 105 <i>Knowledge, Nature, Culture</i>	3.0	_____

<b>TERM IV</b>			
_____	<b>ISE 225 Data Infrastructures</b>	<b>3.0</b>	_____
_____	<b>Humanities<sup>1</sup></b>	<b>3.0</b>	_____
_____	ENGR 212 Design of Dynamical Systems	4.0	_____
_____	ENGR 234 Thermodynamics	3.0	_____
_____	<b>Math Elective<sup>2</sup></b>	<b>2.0</b>	_____
_____	<b>Math Elective<sup>2</sup></b>	<b>2.0</b>	_____

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

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

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

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

Revised September 2020



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Major Concentration: Industrial and Systems Engineering

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

Term	Course	Credits	Grade
<b>TERM V</b>			
_____	ISE 350 Logistics & Supply Chain Management	3.0	_____
_____	SYS 501 Probability and Statistics for Systems Eng.	3.0	_____
_____	EM 365 Statistics for Engineering Mgrs or 241	4.0	_____
_____	ENGR 311 Design with Materials	4.0	_____
_____	Humanities <sup>1</sup> _____	3.0	_____
<b>TERM VI</b>			
_____	ISE 322 Engineering Design VI	2.0	_____
_____	ISE 345 Modeling and Simulation	3.0	_____
_____	SYS 581 Intro to Systems Engineering	3.0	_____
_____	ISE 357 Elements of Operations Research I	3.0	_____
_____	IDE 399 <sup>4</sup> Eng Econ & Proj Mgt	2.0	_____
_____	BT 244 Microeconomics <sup>1</sup>	3.0	_____

Term	Course	Credits	Grade
<b>TERM VII</b>			
_____	ISE 423 Engineering Design VII	3.0	_____
_____	ISE 457 Elements of Operations Research II	3.0	_____
_____	Technical Elective <sup>6</sup> _____	3.0	_____
_____	Technical Elective <sup>6</sup> _____	3.0	_____
_____	IDE 401 <sup>4</sup> Senior Innovation II	1.0	_____
_____	GE _____	3.0	_____
<b>TERM VIII</b>			
_____	ISE 424 Senior Design VIII	3.0	_____
_____	ISE 490 Data-mining and Applied Maching Learning	3.0	_____
_____	ISE 451 Analysis of Networks and Strategies	3.0	_____
_____	Humanities <sup>1</sup> _____	3.0	_____
_____	GE <sup>3</sup> _____	3.0	_____
_____	IDE 402 <sup>4</sup> Senior Innovation III	1.0	_____

**Notes:**

- Humanities Requirement- Four additional humanities classes. One of those must be BT 244, which counts as an upper level humanities courses (300/400). For the remaining courses one must be at the 100/200 level, and they must cover two different disciplines within CAL.
- Students can choose from a list of science electives courses. For Math, students can choose between MA 225, MA 226 or MA 231. For the complete list of science courses, please visit the Academic Catalog.
- 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.
- IDE 399 can be taken concurrently with IDE 401 in Term VII as determined by the engineering program.
- These courses are the Core major courses for the Industrial and Systems Engineering program.
- Any 500 level EM, ES, ISE, SES, SSW, or SYS course can count towards the Technical Elective requirements.

**Additional Courses**

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

**PE Optional Courses**

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: \_\_\_\_\_

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