



Bachelor of Engineering – Student entering 2019 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: General Engineering with a concentration in optical 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., 2015F, 2016S, 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
	TERM I				TERM III		
_____	CH 115 General Chemistry I	3.0	_____	_____	E 126 Mechanics of Solids	4.0	_____
_____	CH 117 General Chemistry Laboratory	1.0	_____	_____	E 231 Engineering Design III	2.0	_____
_____	E 101 Engineering Experience	1.0	_____	_____	E 245 Circuits and Systems	3.0	_____
_____	E 115 Introduction to Programming	2.0	_____	_____	MA 221 Differential Equations	4.0	_____
_____	E 120 Engineering Graphics	1.0	_____	_____	PEP 112 Electricity and Magnetism	3.0	_____
_____	E 121 Engineering Design I	2.0	_____	_____	Humanities¹ _____	3.0	_____
_____	MA 121 Differential Calculus	2.0	_____				
_____	MA 122 Integral Calculus	2.0	_____				
_____	CAL 103 Writing & Communication Colloquium	3.0	_____				
	TERM II				TERM IV		
_____	Science Elective⁵ _____	3.0	_____	_____	E 232 Engineering Design IV	3.0	_____
_____	E 122 Engineering Design II	2.0	_____	_____	PEP 330 Intro. Thermal and Statistical Physics	3.0	_____
_____	MGT 103 Intro. to Entrepreneurial Thinking	2.0	_____	_____	MA 227 Multivariable Calculus	3.0	_____
_____	MA 123 Series, Vectors, Functions, Surfaces	2.0	_____	_____	PEP 209 Modern Optics	3.0	_____
_____	MA 124 Calculus of Two Variables	2.0	_____	_____	PEP 201 Physics III for Engineers	3.0	_____
_____	PEP 111 Mechanics	3.0	_____	_____	Humanities¹ _____	3.0	_____
_____	CAL 105 Knowledge, Nature, Culture	3.0	_____				

Original Revision 2nd Degree

Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____



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TERM V			
_____	EE 471 Transport Phenomena in Solid State	4.0	_____
_____	E 321 Engineering Design V	2.0	_____
_____	E 243 Probability and Statistics for Eng.	3.0	_____
_____	E 344 Materials Processing	3.0	_____
_____	PEP 308 Geometric Optics	3.0	_____
_____	<u>Humanities¹</u>	<u>3.0</u>	_____
TERM VI			
_____	PEP 322 Engineering Design VI	2.0	_____
_____	E 355 Engineering Economics	4.0	_____
_____	PEP 345 Modeling and Simulation	3.0	_____
_____	PEP 509 Intermediate Wave and Optics	3.0	_____
_____	PEP 309 Introductory Optics Lab	3.0	_____
_____	<u>GE³</u>	<u>3.0</u>	_____
_____	IDE ⁴ 400 Senior Innovation I	1.0	_____

Term	Course	Credits	Grade
TERM VII			
_____	PEP 423 Engineering Design VII	3.0	_____
_____	PEP 577 Laser Theory and Design	3.0	_____
_____	PEP 515 Photonics I	3.0	_____
_____	PEP 510 Modern Optics Lab	3.0	_____
_____	<u>Humanities¹</u>	<u>3.0</u>	_____
_____	IDE ⁴ 401 Senior Innovation II	1.0	_____
TERM VIII			
_____	PEP 424 Engineering Design VIII	3.0	_____
_____	PEP 516 Photonics II	3.0	_____
_____	<u>Technical Elective²</u>	<u>3.0</u>	_____
_____	<u>GE³</u>	<u>3.0</u>	_____
_____	<u>GE³</u>	<u>3.0</u>	_____
_____	IDE ⁴ 402 Senior Innovation III	1.0	_____
Additional Courses			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Notes:

1. Humanities Requirement -- Four 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. Optical Engineering Technical Electives should be chosen from PEP542, PEP553, PEP570, PEP578, PEP579.
3. General Education Electives – chosen by the student – can be any 3 or 4 credit course used towards a minor, major concentration, research, independent study, language courses, or a course taken during international experience.
4. IDE 400 can be taken concurrently with IDE 401 in Term VII as determined by the engineering program.
5. Optical Engineering students can take any of the following: BIO 281 Biology, CH 116 Chemistry II, NANO 200 Intro to Nanotechnology, EN250 Quantitative Biology (web course), PEP 151 Introduction to Astronomy, PEP 351 Planetary Science, or PEP 336 Intro to Astrophysics and Cosmology.

PE Required Courses⁷

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

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.

Original Revision 2nd Degree

Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____