Bachelor of Engineering Study Plan - Entering Fall 2024 and later

Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030
Department of Physics

Name: _____ ID: _____ E-mail: _____ Class: _____

Major: **Engineering (Concentration in Optical Engineering)**

Instructions Please print or type. The purpose of this study plan is to track your progress to degree completion by outlining the specific courses required for the program and when you expect to take them. Please indicate the term (semester) when you plan to take or have taken each course (e.g., 24F, 25S, 25F, etc.). If a choice of course is given for the requirement, circle the appropriate course number. For electives, fill in the course number. Courses completed via AP/IB or transfer credit should be marked as AP, IB, or TR respectively. Revise this plan as needed. An additional study plan will be required if you wish to pursue a minor or a second degree.

Term	Course	Credits	Grade
	TERM I		
I	CH 115 - General Chemistry I	3.0	_____
I	CH 117 - General Chemistry Laboratory I	1.0	_____
I	ENGR 111 - Intro to Engineering Design & Systems Thinking	4.0	_____
I	ENGR 116 - Intro to Programming & Algorithmic Thinking	3.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____
I	MA 121 - Differential Calculus	2.0	_____
I	MA 122 - Integral Calculus	2.0	_____
I	PRV 101 - First Year Experience	1.0	_____
	TERM II		
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____
II	CH 116 - General Chemistry II	3.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____
II	ENGR 122 - Field Sustainable Systems with Sensors	2.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____
II	MGT 103 - Introduction to Entrepreneurial Thinking	2.0	_____
II	PEP 111 - Mechanics	3.0	_____

Term	Course	Credits	Grade
	TERM III		
III	ENGR 245 - Circuits and Systems	3.0	_____
III	MA 221 - Differential Equations	4.0	_____
III	PEP 112 - Electricity & Magnetism	3.0	_____
III	PEP 242 - Modern Physics	3.0	_____
III	PEP 330 - Introduction Thermal and Statistical Physics	3.0	_____
	TERM IV		
IV	ENGR 211 - Statics and Introduction to Engineering Mechanics	4.0	_____
IV	ENGR 212 - Design of Dynamical Systems	4.0	_____
IV	ENGR 241 - Probability & Statistics with Data Science Apps.	4.0	_____
IV	PEP 209 - Fundamentals of Optics	3.0	_____
IV	PRV 20X - Frontiers of Technology[4]	1.0	_____

Student Signature: _____ Date: _____ ☐ Original ☐ Revision

Academic Advisor Signature: _____ Date: _____ ☐ 2nd Degree

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Term	Course	Credits	Grade
	TERM V		
V	ENGR 311 - Design with Materials	4.0	_____
V	PEP 308 - Geometrical Optics	3.0	_____
V	PEP 309 - Introductory Optics Lab	3.0	_____
V	PEP 332 - Mathematical Methods for Physical Sciences	3.0	_____
V	Humanities:_____	3.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____
	TERM VI		
VI	IDE 399 - Engineering Economics & Project Management	2.0	_____
VI	PEP 322 - Engineering Design VI	2.0	_____
VI	PEP 509 - Intermediate Waves and Optics	3.0	_____
VI	PEP 510 - Modern Optics Laboratory	3.0	_____
VI	General Elective[2]:_____	3.0	_____
VI	Humanities[3]:_____	3.0	_____
VI	PRV 20X - Frontiers of Technology	1.0	_____

Term	Course	Credits	Grade
	TERM VII		
VII	IDE 401 - Senior Innovation-II:Value Proposition	1.0	_____
VII	PEP 423 - Engineering Design VII	3.0	_____
VII	PEP 515 - Photonics I	3.0	_____
VII	PEP 577 - Laser Theory and Design	3.0	_____
VII	Technical Elective[1]:_____	3.0	_____
VII	General Elective:_____	3.0	_____
	TERM VIII		
VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	3.0	_____
VIII	PEP 424 - Engineering Design VIII	3.0	_____
VIII	PEP 516 - Photonics II	3.0	_____
VIII	Technical Elective:_____	3.0	_____
VIII	General Elective:_____	3.0	_____
VIII	Humanities:_____	3.0	_____

ADDITIONAL COURSES

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

Notes:

1. Technical Electives can be selected from the following courses:
   a. PEP 369, PEP 501, PEP 511, PEP 542, PEP 543, PEP 553, PEP 557, PEP 570, PEP 575, PEP 578, PEP 579
2. General Electives can be selected from available courses offered by programs in SES (including PEP Courses), SOB and HASS. Approval from the student's advisor and the course instructor may be required.
3. Humanities: Please see Humanities Requirements for specific requirements.
4. SUCCESS Core Curriculum: Students must complete requirements including PRV 101, and three (3) courses from PRV 201, PRV 202, PRV 203, PRV 204, PRV 205. (PRV 203 can be taken if BIO 181 is not used for credit; PRV 205 can be taken if PEP 369 is not used for credit.)

Student Signature: _____ Date: _____ ☐ Original ☐ Revision

Academic Advisor Signature: _____ Date: _____ ☐ 2nd Degree