STEVENS INSTITUTE OF TECHNOLOGY

Bachelor of Science 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: **Physics**

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	CS 105 - Introduction to Scientific Computing **OR**	3.0	_____
	CS 115 - Introduction to Computer Science	4.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____
I	MA 121 - Differential Calculus	2.0	_____
I	MA 122 - Integral Calculus	2.0	_____
I	PEP 111 - Mechanics	3.0	_____
I	PRV 101 - First Year Experience	1.0	_____
	TERM II		
II	CH 116 - General Chemistry II	3.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____
II	PEP 112 - Electricity and Magnetism	3.0	_____
II	PEP 187 - Seminar in Physics	1.0	_____
II	Science Elective[2]:_____	3.0	_____

Term	Course	Credits	Grade
	TERM III		
III	MA 221 - Differential Equations	4.0	_____
III	PEP 221 - Physics Lab I for Scientists	1.0	_____
III	PEP 242 - Modern Physics	3.0	_____
III	PEP 297 - SKIL I: Intro to Data Analysis and Electronic Based Meas.	2.0	_____
III	PEP 330 - Introduction to Thermal and Statistical Physics	3.0	_____
III	PRV 20X - Frontiers of Technology[5]	1.0	_____
III	Humanities[4]:_____	3.0	_____
	TERM IV		
IV	ENGR 241 - Probability & Statistics with Data Science Apps **OR**	4.0	_____
	MA 222 - Probability and Statistics	3.0	_____
IV	MA 225 - Infinite Series	2.0	_____
IV	MA 226 - Multivariable Calculus II	2.0	_____
IV	PEP 209 - Fundamentals of Optics	3.0	_____
IV	PEP 222 - Physics Lab II for Scientists	1.0	_____
IV	PEP 369 - Introduction to Quantum Physics	3.0	_____
IV	Humanities:_____	3.0	_____

Student Signature: _____ Date:_____ ☐ Original ☐ Revision

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

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Term	Course	Credits	Grade
	TERM V		
V	PEP 298 - SKIL II: Digital Electronics and Microprocessor Controlled Meas.	2.0	
V	PEP 332 - Mathematical Methods for Physical Sciences	3.0	
V	PEP 538 - Introduction to Mechanics	3.0	
V	MGT 103 - Introduction to Entrepreneurial Thinking	2.0	
V	General Elective[3]:_____	3.0	
V	Humanities:_____	3.0	
	TERM VI		
VI	PEP 397 - SKIL III: Advanced Measurement Techniques and System Design	3.0	
VI	PEP 542 - Electromagnetism	3.0	
VI	General Elective:_____	3.0	
VI	Humanities:_____	3.0	
VI	PRV 20X - Frontiers of Technology	1.0	
VI	PRV 20X - Frontiers of Technology	1.0	

Term	Course	Credits	Grade
	TERM VII		
VII	PEP 553 - Quantum Mechanics and Engineering Apps	3.0	
VII	General Elective:_____	3.0	
VII	General Elective:_____	3.0	
VII	Technical Elective[1]:_____	3.0	
VII	Technical Elective:_____	3.0	
	TERM VIII		
VIII	General Elective:_____	3.0	
VIII	Technical Elective:_____	3.0	
VIII	Technical Elective:_____	3.0	
VIII	Technical Elective:_____	3.0	
VIII	Technical Elective:_____	3.0	

Notes:

1. Technical Electives are any 3 credit courses offered by the Physics Department at the 300 level or above that are not already required for the program. The following courses may be counted as technical electives towards completion of the physics undergraduate program:
   a. PEP 305, PEP 336, PEP 337, PEP 351, PEP 440, PEP 445, PEP 497, PEP 498, PEP 501, PEP 503, PEP 506, PEP 507, PEP 509, PEP 510, PEP 511, PEP 515, PEP 516, PEP 520, PEP 528, PEP 554, PEP 555, PEP 552, PEP 557, PEP 561, PEP 562, PEP 577, PEP 578, PEP 579

   Courses offered by other departments that have sufficient physics content may be counted as technical electives upon approval by an academic advisor
2. Science Elective: The following courses may be used to satisfy the science elective requirement:
   a. BIO 181, CE 240, EN 250, EN 275, NANO 200, PEP 151, PEP 152
3. 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.
4. Humanities: Please see Humanities Requirements for specific requirements.
5. SUCCESS Core Curriculum: Students must complete requirements including PRV 101, and three (3) courses from PRV 201, PRV 202, PRV 203, PRV 204, and PRV 205. (For physics majors PRV 201, PRV 202 and PRV 204 are recommended; PRV 203 can also be taken if BIO 181 is not used for credit.)

ADDITIONAL COURSES

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

Student Signature: _____ Date:_____ ☐ Original ☐ Revision

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