STEVENS INSTITUTE OF TECHNOLOGY

Bachelor of Engineering Study Plan - Entering Fall 2024 and later

Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030
Department of Chemical Engineering and Materials Science

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

Major: **Chemical 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	HASS 103 - Writing and Communications Colloquium	3.0	_____
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	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	CHE 210 - Process Analysis	3.0	_____
III	ENGR 211 - Statics and Introduction to Engineering Mechanics	4.0	_____
III	ENGR 245 - Circuits and Systems	3.0	_____
III	MA 221 - Differential Equations	4.0	_____
III	PEP 112 - Electricity and Magnetism	3.0	_____
	TERM IV		
IV	BIO 181 - Biology and Biotechnology	3.0	_____
IV	CHE 233 - Chemical Engineering Thermodynamics I	3.0	_____
IV	ENGR 212 - Design of Dynamical Systems	4.0	_____
IV	ENGR 241 - Probability & Statistics with Data Science Apps	4.0	_____
IV	MA 225 - Infinite Series	2.0	_____
IV	MA 226 - Multivariable Calculus II	2.0	_____

Student Signature: _____ Date:_____ ☐ Original ☐ Revision

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

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Term	Course	Credits	Grade
	TERM V		
V	CHE 332 - Separation Operations	3.0	_____
V	CHE 333 - Chemical Engineering Thermodynamics II	3.0	_____
V	CHE 336 - Fluid Mechanics	3.0	_____
V	ENGR 311 - Design with Materials	4.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____
	TERM VI		
VI	CHE 322 - Engineering Design VI	3.0	_____
VI	CHE 342 - Heat and Mass Transfer	3.0	_____
VI	CHE 345 - Process Control, Modeling and Simulation	3.0	_____
VI	CHE 351 - Reactor Design	3.0	_____
VI	IDE 399 - Engineering Economics & Project Management	2.0	_____
VI	Humanities	3.0	_____

Term	Course	Credits	Grade
	TERM VII		
VII	CH 243 - Organic Chemistry I	3.0	_____
VII	CH 245 - Organic Chemistry Lab I	1.0	_____
VII	CHE 423 - Engineering Design VII	3.0	_____
VII	CHE 432 - Chemical Engineering Laboratory	2.0	_____
VII	IDE 401 - Senior Innovation-II:Value Proposition	1.0	_____
VII	Chemistry Technical Elective: _____	3.0	_____
VII	Humanities: _____	3.0	_____
VII	PRV 20X - Frontiers of Technology	1.0	_____
	TERM VIII		
VIII	CHE 424 - Engineering Design VIII	3.0	_____
VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	1.0	_____
VIII	General Elective: _____	3.0	_____
VIII	General Elective: _____	3.0	_____
VIII	Chemistry Technical Elective: _____	3.0	_____
VIII	Humanities: _____	3.0	_____

Notes:

1. Technical Electives: Two technical electives (3 or 4 credits each) must be selected from the following list of courses: BIO 291, BIO 382, CH 244, CH 322, CH 362, CH 412, CH 421, CH 461, CH 520, CH 550, CH 561, CH 580, CH 581, CH 582, CHE 509, CHE 555, CHE 560, CHE 580, EN 570
2. General Electives can be selected from available courses offered by programs in SES, SSE, SOB, and HASS (including CHE courses). Approval from the student's advisor and the course instructor may be required.
3. Humanities: Please see Humanities Requirements for specific requirements.
4. Frontiers of Technology: PRV 201 - AI and Machine Learning, PRV 202 - Data Science and Analytics, PRV 204 - Sustainability are recommended.

ADDITIONAL COURSES

____	_____	_____	_____
____	_____	_____	_____
____	_____	_____	_____
____	_____	_____	_____

Student Signature: _____ Date: _____

Academic Advisor Signature: _____ Date: _____

☐ Original ☐ Revision

☐ 2nd Degree