

Bachelor of Engineering Study Plan - Entering Fall 2025 and later

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., 25F, 26S, 26F, 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	Course	Credits	Grade
TERM I				TERM III			
I	HASS 103 - Writing and Communications Colloquium	3.0	_____	III	CHE 210 - Process Analysis	3.0	_____
I	CH 115 - General Chemistry I	3.0	_____	III	ENGR 211 - Statics and Introduction to Engineering Mechanics	4.0	_____
I	CH 117 - General Chemistry Laboratory I	1.0	_____	III	ENGR 245 - Circuits and Systems	3.0	_____
I	ENGR 111 - Intro to Engineering Design & Systems Thinking	4.0	_____	III	MA 221 - Differential Equations	4.0	_____
I	ENGR 116 - Intro to Programming & Algorithmic Thinking	3.0	_____	III	PEP 112 - Electricity and Magnetism	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				TERM IV			
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____	IV	BIO 181 - Biology and Biotechnology	3.0	_____
II	CH 116 - General Chemistry II	3.0	_____	IV	CHE 233 - Chemical Engineering Thermodynamics I	3.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____	IV	ENGR 212 - Design of Dynamical Systems	4.0	_____
II	ENGR 122 - Field Sustainable Systems with Sensors	2.0	_____	IV	ENGR 241 - Probability & Statistics with Data Science Apps	4.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____	IV	MA 225 - Infinite Series	2.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____	IV	MA 226 - Multivariable Calculus II	2.0	_____
II	MGT 103 - Introduction to Entrepreneurial Thinking	2.0	_____				
II	PEP 111 - Mechanics	3.0	_____				

Student Signature: _____ Date: _____ Original _____ Revision _____

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

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Term	Course	Credits	Grade	Term	Course	Credits	Grade
TERM V				TERM VII			
V	CHE 332 - Separation Operations	3.0	_____	VII	CH 243 - Organic Chemistry I	3.0	_____
V	CHE 333 - Chemical Engineering Thermodynamics II	3.0	_____	VII	CH 245 - Organic Chemistry Lab I	1.0	_____
V	CHE 336 - Fluid Mechanics	3.0	_____	VII	CHE 423 - Engineering Design VII	3.0	_____
V	ENGR 311 - Design with Materials	4.0	_____	VII	CHE 432 - Chemical Engineering Laboratory	2.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____	VII	IDE 401 - Senior Innovation-II: Value Proposition	1.0	_____
V	PRV 20X - Frontiers of Technology	1.0	_____	VII	Chemistry Technical Elective: _____	3.0	_____
				VII	Humanities: _____	3.0	_____
				VII	PRV 20X - Frontiers of Technology	1.0	_____
TERM VI				TERM VIII			
VI	CHE 322 - Engineering Design VI	3.0	_____	VIII	CHE 424 - Engineering Design VIII	3.0	_____
VI	CHE 342 - Heat and Mass Transfer	3.0	_____	VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	1.0	_____
VI	CHE 345 - Process Control, Modeling and Simulation	3.0	_____	VIII	General Elective: _____	3.0	_____
VI	CHE 351 - Reactor Design	3.0	_____	VIII	General Elective: _____	3.0	_____
VI	IDE 399 - Engineering Economics & Project Management	2.0	_____	VIII	Chemistry Technical Elective: _____	3.0	_____
VI	Humanities	3.0	_____	VIII	Humanities: _____	3.0	_____

ADDITIONAL COURSES

Notes:

1. Technical Electives: Two technical electives (3 or 4 credits each) must be selected from the following list of courses: AAI 551, AAI 595, BIO 290, 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, MT 525
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.

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

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