

Bachelor of Science Study Plan - Entering Fall 2025 and later

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

Major: **Chemistry**

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	BIO 181 - Biology and Biotechnology	3.0	_____	III	CH 301 - Professional Ethics for Scientific Research	1.0	_____
I	BIO 182 - Biology and Biotechnology Laboratory	1.0	_____	III	PRV 20X - Frontiers of Technology ⁴	1.0	_____
I	CH 115 - General Chemistry I	3.0	_____	III	CH 243 - Organic Chemistry I	3.0	_____
I	CH 117 - General Chemistry Laboratory I	1.0	_____	III	CH 245 - Organic Chemistry Lab I	1.0	_____
I	CH 179 - Career Pathways in Chemical and Biology Sciences	1.0	_____	III	PEP 111 - Mechanics	3.0	_____
I	HASS 103 - Writing and Communications Colloquium	3.0	_____	III	CS 105 - Introduction to Scientific Computing OR	3.0	_____
I	MA 121 - Differential Calculus	2.0	_____		CS 115 - Introduction to Computer Science	4.0	_____
I	MA 122 - Integral Calculus	2.0	_____	III	Humanities: _____	3.0	_____
I	PRV 101 - First Year Experience	1.0	_____				
TERM II				TERM IV			
II	CH 116 - General Chemistry II	3.0	_____	IV	CH 244 - Organic Chemistry II	3.0	_____
II	CH 118 - General Chemistry Laboratory II	1.0	_____	IV	CH 246 - Organic Chemistry Laboratory II	1.0	_____
II	CH 189 - Seminar in Chemistry and Biology	1.0	_____	IV	CH 321 - Thermodynamics	3.0	_____
II	HASS 105 - Knowledge, Nature, Culture	3.0	_____	IV	ENGR 241 - Probability & Statistics with Data Science Apps	4.0	_____
II	MA 125 - Vectors and Matrices	2.0	_____	IV	PEP 112 - Electricity and Magnetism	3.0	_____
II	MA 126 - Multivariable Calculus I	2.0	_____	IV	PEP 221 - Physics Lab I for Scientists	1.0	_____
II	BIO 290 - Cell and Molecular Biology	3.0	_____	IV	PRV 20X - Frontiers of Technology	1.0	_____
II	BIO 292 - Cell and Molecular Biology Laboratory	2.0	_____				

Student Signature: _____ Date: _____ Original _____ Revision

Academic Advisor Signature: _____ Date: _____ 2nd Degree

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

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Term	Course	Credits	Grade	Term	Course	Credits	Grade
TERM V				TERM VII			
V	CH 362 - Instrumental Analysis I - Spectroscopy and Chromatography	4.0	_____	VII	CH 412 - Inorganic Chemistry I	4.0	_____
V	CH 550 - Spectra and Structure	3.0	_____	VII	CH 498 - Senior Capstone Research Project I	3.0	_____
V	CH 580 - Biochemistry I - Cellular Metabolism and Regulation	3.0	_____	VII	CH 520 - Advanced Physical Chemistry	3.0	_____
V	MGT 103 - Introduction to Entrepreneurial Thinking	2.0	_____	VII	General Elective ² : _____	3.0	_____
V	PEP 222 - Physics Lab II for Scientists	1.0	_____	VII	Technical Elective ¹ : _____	3.0	_____
V	CH 398 - Research Proposals for Undergraduate Research	1.0	_____				
TERM VI				TERM VIII			
VI	CH 421 - Chemical Dynamics	4.0	_____	VIII	CH 499 - Senior Capstone Research Project II	3.0	_____
VI	CH 461 - Instrumental Analysis II - Electrochemistry	4.0	_____	VIII	CH 582 - Biophysical Chemistry	3.0	_____
VI	CH 581 - Biochemistry II: Biomolecular Structure and Function	3.0	_____	VIII	General Elective: _____	3.0	_____
VI	PRV 20X - Frontiers of Technology	1.0	_____	VIII	Technical Elective: _____	3.0	_____
VI	Humanities: _____	3.0	_____	VIII	Humanities: _____	3.0	_____

Notes:

- Technical Elective: Can be selected from available CH and BIO 300, 400, 500-level as well as selected courses listed below that are not already included in your degree program requirements. Suggested technical electives for the Biology program include the following:
 - BIO 392, BIO 487, BIO 526, BIO 586, BIO 583, BIO 584, CH 564, CH 574
 - BIO 682, BIO 683, BIO 690, CH 646, CH 660, CH 685, BME 504, CHE 560, CS 544, EM 623, EM 626, EN 377, EN 510, EN 517, EN 530, EN 551, EN 506, EN 570, MGT 609, MGT 616, MT 581, PME 530/CHE 530
 - If you are interested in taking a course related to chemistry in another department not on this list, please contact your academic advisor.
- General Electives can be selected from available courses offered by programs in SES, SOB and HASS (including CH courses). Approval from the student's advisor and the course instructor may be required.
 - Recommended general elective if planning to pursue an engineering master's would be: MA 221 Differential Equations.
 - Recommended general elective courses connected to the major include: EN 250 Quantitative Biology and PEP 242 Modern Physics.
- Humanities: Please see [Humanities Requirements](#) for specific requirements.
- [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.

ADDITIONAL COURSES

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

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