

Bachelor of Science Study Plan - Entering Fall 2025 and later

Stevens Institute of Technology Castle Point on Hudson Hoboken, NJ 07030 Department of Chemistry and Chemical Biology

Name			ID:		_ E-mail:	Class:				
Major: Chemical Biology										
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/BIO 301 - Professional Ethics for Scientific Research	1.0				
I	BIO 182 - Biology and Biotechnology Laboratory	1.0		III	PEP 111 - Mechanics	3.0				
I	CH 115 - General Chemistry I	3.0		III	BIO 382 - Biological Systems	4.0				
I	CH 117 - General Chemistry Laboratory I	1.0		III	CH 243 - Organic Chemistry I	3.0				
I	CH 179 - Career Pathways in Chemical and Biology Sciences	1.0		III	CH 245 - Organic Chemistry Lab I	1.0				
I	HASS 103 - Writing and Communications Colloquium	3.0		III	PRV 20X - Frontiers of Technology ⁵	1.0				
I	MA 121 - Differential Calculus	2.0		III	CS 105 - Introduction to Scientific Computing OR	3.0				
I	MA 122 - Integral Calculus	2.0			CS 115 - Introduction to Computer Science	4.0				
I	PRV 101 - First Year Experience	1.0								
	TERM II				TERM IV					
II	BIO 290 - Cell and Molecular Biology	3.0		IV	CH 244 - Organic Chemistry II	3.0				
II	BIO 292 - Cell and Molecular Biology Laboratory	1.0		IV	CH 246 - Organic Chemistry Laboratory II	1.0				
II	CH 116 - General Chemistry II	3.0		IV	CH 321 - Thermodynamics	3.0				
II	CH 118 - General Chemistry Laboratory II	1.0		IV	ENGR 241 - Probability & Statistics w/ Data Science Apps	4.0				
II	HASS 105 - Knowledge, Nature, Culture	3.0		IV	PEP 112 - Electricity and Magnetism	3.0				
II	MA 125 - Vectors and Matrices	2.0		IV	PEP 221 - Physics Lab I for Scientists	1.0				
II	MA 126 - Multivariable Calculus I	2.0		IV	PRV 20X - Frontiers of Technology	1.0				
II	CH 189 - Seminar in Chemistry and Biology	1.0								
Studen	t Signature:				Date: Original	Revision				

Academic Advisor Signature: _____ 2nd Degree



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Major:	Chemical Biology						
Term	Course	Credits	Grade	Term	Course		Credits Grade
	TERM V				TERM VII		
V	BIO 484 - Genetics	4.0		VII	BIO 568 - Computational Biology OR		3.0
V	CH 362 - Instrumental Analysis I - Spectroscopy and Chromatography	4.0			BIO 583 - Physiology		3.0
V	CH 580 - Biochemistry I - Cellular Metabolism and Regulation	3.0		VII	CH/BIO 498 - Senior Capstone Research Pro	oject I	3.0
V	MGT 103 - Introduction to Entrepreneurial Thinking	2.0		VII	Humanities:		3.0
V	PEP 222 - Physics Lab II for Scientists	1.0		VII	General Elective ³ :		3.0
V	CH/BIO 398 - Research Proposals for Undergraduate Research	1.0		VII	Technical Elective ² :		3.0
	TERM VI				TERM VIII		
VI	CH 421 - Chemical Dynamics	4.0		VIII	CH/BIO 499 - Senior Capstone Research Pro	oject 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:		
VI	PRV 20X - Frontiers of Technology	1.0		VIII	Technical Elective:		3.0
VI	Humanities:	3.0		VIII	Humanities:		3.0
					ADDITIONAL CO	OURSES	
2. Ta yo a. b. c. d. 3. Ga stu a. b. 4. Hu	organic Chemistry, CH 412, is required if you wish to pursue ACS certification and is only offered in Spring semester. If teen in Term V or Term VII. It can be used to fulfill a general elective or technical elective in addition to the ACS certification and is only offered in Spring semester. If teen in Term V or Term VII. It can be used to fulfill a general elective or technical elective in addition to the ACS certification and is only offered in Spring semester. If the initial Elective in addition to the ACS certification and is only offered in Spring semester. If the ACS certification is elected courses listed below urdegree program requirements. Suggested technical electives for the Chemical Biology program include the following BIO 307, BIO 392, BIO 400, BIO 487, BIO 507, BIO 509, BIO 526, BIO 586, CH 412, CH 520, CH 550, CH 564, CH Whichever of BIO 568 and BIO 583 you choose as a core course, the other may be chosen as a Technical Elective BIO 682, BIO 683, BIO 684, BIO 687, CH 685, BME 504, BME 505, BME 508/MT 508, BME 515, BME 515, BME 561, BME 506, GMGT 609, MGT 616, MT 581, PME 530/CHE 530 If you are interested in taking a course related to biology or chemistry in another department not on this list, please contineral Electives can be selected from available courses offered by programs in SES, SOB and HASS (including CH/BIO ident's advisor and the course instructor may be required. Recommended general elective if planning to pursue an engineering master's: MA 221 Differential Equations. Recommended general elective courses connected to the major include: EN 250 Quantitative Biology and PEP 242 Molmanities: Please see Humanities Requirements for specific requirements. **WOGSS Core Curriculum**: Students must complete requirements including PRV 101, and three (3) courses from PRV 204,						
Student	Signature:				Date:	Original	Revision
Academic Advisor Signature:					Date:	2nd Degree	