

Bachelor of Science Study Plan - Entering Fall 2024 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	Biology					
expec the ap	ctions Please print or type. The purpose of this study plan is to trate to take them. Please indicate the term (semester) when you plan propriate course number. For electives, fill in the course number. d. An additional study plan will be required if you wish to pursue	to take of Courses	or have taker completed v	n each course (via AP/IB or tr	(e.g., 24F, 25S, 25F, etc.). If a choice of course is given for t	he requirement, circle
Term	Course	Credits	Grade	Term	Course	Credits Grade
	TERM I				TERM III	
I	BIO 181 - Biology and Biotechnology	3.0		III	BIO 301 - Professional Ethics for Scientific Research	1.0
I	BIO 182 - Biology and Biotechnology Laboratory	1.0		III	BIO 382 - Biological Systems	4.0
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	ENGR 241 - Probability & Statistics with Data Science Ap	ps 4.0
I	HASS 103 - Writing and Communications Colloquium	3.0		III	PEP 111 - Mechanics	3.0
I	MA 121 - Differential Calculus	2.0		III	PRV 20X - Frontiers of Technology ⁴	1.0
I	MA 122 - Integral Calculus	2.0				
I	PRV 101 - First Year Experience	1.0				
	TERM II				TERM IV	
II	BIO 291 - Cell and Molecular Biology	4.0		IV	CH 244 - Organic Chemistry II	3.0
II	CH 116 - General Chemistry II	3.0		IV	CH 246 - Organic Chemistry Laboratory II	1.0
II	CH 118 - General Chemistry Laboratory II	1.0		IV	CS 105 - Introduction to Scientific Computing OR	3.0
II	CH 189 - Seminar in Chemistry and Biology	1.0			CS 115 - Introduction to Computer Science	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
				IV	Humanities ³ :	3.0
Student Signature:					Date:	Revision
Academic Advisor Signature:				Date: 2nd Degree		



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Name:			ID:		E-mail:	_ Class:
Major:	Biology					
Term	Course	Credits	Grade	Term	Course	Credits Grade
	TERM V				TERM VII	
V	BIO 307 - Fundamentals of Biostatistics and Bioinformatics	3.0		VII	BIO 498 - Senior Capstone Research Project I	3.0
V	BIO 484 - Genetics	4.0		VII	BIO 568 - Computational Biology OR	3.0
V	CH 580 - Biochemistry I - Cellular Metabolism and Regulation	3.0			BIO 583 - Physiology	3.0
V	MGT 103 - Introduction to Entrepreneurial Thinking	2.0		VII	IDE 401 - Senior Innovation II: Value Proposition	1.0
V	PEP 222 - Physics Lab II for Scientists	1.0		VII	General Elective ² :	3.0
V	Humanities:	3.0		VII	Technical Elective:	
				VII	Humanities:	
	TERM VI				TERM VIII	
VI	BIO 392 - Microbiology	4.0		VIII	BIO 499 - Senior Capstone Research Project II	3.0
VI	BIO 398 - Research Proposals for Undergraduate Research	1.0		VIII	BIO 586 - Immunology	3.0
VI	BIO 509 - Clinical Research Methodology and Design	3.0		VIII	IDE 402 - Senior Innovation III: Venture Planning and Pitch	1.0
VI	PRV 20X - Frontiers of Technology	1.0		VIII	General Elective:	3.0
VI	Technical Elective ¹ :	3.0			General Elective:	
VI	Technical Elective:	3.0			Humanities:	
					ADDITIONAL COURSES	
you a. b. If y adv 2. Ger App a. b.	nnical Elective: Can be selected from available CH and BIO 300, 400, and 500-level courses to degree program requirements. Suggested technical electives for the Biology program include BIO 397, BIO 485, BIO 487, BIO 507, BIO 526, BIO 584, BME 505, CH 581, CS 544. Whichever of BIO 568 and BIO 583 you choose as a core course, the other may be chosen on are interested in a taking a course related to biology in another department not on this list, pisor. It is increased by the selectives can be selected from available courses offered by programs in SES, SOB and Broval from the student's advisor and the course instructor may be required. Recommended general elective if planning to pursue an engineering master's: MA 221 Diff Recommended general elective courses connected to the major include: EN 250 Quantitative Physics. **manities: Please see **Humanities Requirements** for specific requirements.** **CCESS Core Curriculum: Students must complete requirements including PRV 101, and three PRV 203, PRV 204, PRV 205.	as a Technica olease contac (ASS (include ferential Equate the Biology ar	al Elective. It your academic ing CH courses). Itions. Ind PEP 242 Modern			
Student Signature:					Date: Original I	Revision
Academic Advisor Signature:					Date: 2nd Degree	