## Suggested Four-Year Plan of Study BIOLOGY AND CHEMISTRY

Suggested 4-year plan of study. Completion of 120 credits required for graduation.



requirements (at least 9 credits). Varies by

major and concentration.

## Biotechnology B.S. (Bachelor of Science)

FRESHMAN YEAR			SOPHOMORE YEAR			
Fall Semester		14 Credits	Fall Semester		17 Credits	
ENGL 1100	Writing I	3	BIOL 2300	Ecology	4	
BIOL 1800	General Biology I*	4	CHEM 2000	Organic Ch	emistry I (AIA)4	
CHEM 1300	General Chemistry I* (SI)	4	MATH ≥1300 <b>**</b>	Math Elect	ive (QR)3	
FYE 1015	· · · · · · · · · · · · · · · · · · ·			General Education (WS)3		
* General Chemistry requires a 'passing' score on Advanced and Functions Accuplacer exam OR successful completion of MATH 0500 (Algebraic Preperation) prior to enrollment. To continue as a Biology major, students must earn a grade of 2.0 or higher in General Biology I and General Chemistry I.			** Applied Statistics (MATH 1700) is recommended to fulfill the QR requirement.			
			Spring Seme		17 Credits	
Spring Sem		15 Credits			4	
ENGL 1200	Writing II		CHEM 2100	_	emistry II (AIA)4	
BIOL 1900	General Biology II				ucation/Exploration3	
CHEM 1400	General Chemistry II (PL)				ve3	
MATH 1300	Precalculus	4		Free Electi	ve3	
	JUNIOR YEAR		SENIOR YEAR			
			Fall Semeste	er	15-17 Credits	
Fall Semest	er	17 Credits	BIOL ≥2000	Biology Ele	ective***3-4	
BIOL 2250	Cell Biology		BIOL ≥2000		ective 3-4	
PHYS 2300	General Physics I				ral Education/Exploration3	
	General Education/Exploration			General Education/Exploration3		
	General Education/Exploration	3			e Elective	
	Free Elective	3	*** Three of the five Biology electives must be selected from the following courses: General Microbiology (BIOL 2150), Biochemical Techniques (BIOL 3060),			
Spring Semester		13-14 Credits	Molecular Biology (BIOL 4500), Cell Culture Techniques (BIOL 3550), and Immunology (BIOL 4800). Additionally, one of the five must be designated as a			
BIOL ≥2000	Biology Elective	3-4	Capstone course.			
PHYS 2400	General Physics II		Spring Seme	ester	13-16 Credits	
	General Education/Exploration	3	BIOL ≥3000		ective (Capstone) (IHIP)4	
	Free Elective	3	BIOL ≥2000	Biology Ele		
				0.	ent Study <b>OR</b> Internship 3-6	
General Education: Foundation				Free Elective		
					ve 3	
3 credits Reading and Information Literacy (R and IL): First Year E 3 credits Writing (W): Writing I 3 credits Writing and Information Literacy (W and IL): Writing II 3 credits Quantitative Reasoning (QR) (MATH) 3 credits World Languages, Speaking and Listening (WS)		3 credits C 3 credits E 3 credits E 3 credits F 3 credits F 3 credits L 3 credits F 3 credits F	General Education: Exploration 3 credits Civic Learning (CV) 3 credits Diverse Perspectives (DP) 3 credits Ethical Reasoning (ER) 3 credits Fine Arts Expression and Analysis 3 credits Historical Inquiry and Analysis (HI) 3 credits Literary Inquiry and Analysis (LI) 3 credits Personal Wellness (PW) 3 credits Procedural and Logical Thinking (I		General Education: Integration 9 credits AIA (3 of which must be Integrative High Impact Practice - IHIP) OR Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)  General Education: MAJ There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by	