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



approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by

major and concentration.

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

FRESHMAN YEAR				SOPHOMORE YEAR											
Fall Semester		14 Cre	dits	ts Fall Semester		17 Credits									
ENGL 1100	Writing I		3	BIOL 2300	Ecology		4								
BIOL 1800	General Biology I*		4	CHEM 2000	Organic Ch	nemistry I (AIA)	4								
CHEM 1300	General Chemistry I* (SI)		4	MATH ≥1300 <b>**</b>	Math Elect	tive (QR)	3								
FYE 1015 First Year Experience3			3		General Ed	ducation (WS)3									
* General Chemistry requires a 'passing' score on Advanced and Functions				General Education/Exploration3											
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 Semester			17 Credits								
Spring Semester		15 Cre	dits	Genetics 2800 Genetics			-								
ENGL 1200	Writing II		3	CHEM 2100	Organic Ch	nemistry II (AIA)	4								
BIOL 1900	General Biology II				General Ed	ducation/Exploration.	3								
CHEM 1400	General Chemistry II (PL)				Free Electi	ve	3								
MATH 1300	Precalculus				Free Electi	ve	3								
			•												
JUNIOR YEAR				SENIOR YEAR											
F-II C		1 <b>-</b> C	J:L-	Fall Semeste	er		15-17 Credits								
Fall Semest		17 Cre		BIOL ≥2000	Biotechno	ology Elective***	3-4								
BIOL 2250 PHYS 2300	Cell Biology			BIOL ≥2000	Biology El	ective	3-4								
	General Physics I				General Education/Exploration3										
	General Education/Exploration				General Education/Exploration3										
					Free Elective 3										
	Free Elective	3		*** Three of the five Biology electives must be selected from the following courses: General Microbiology (BIOL 2150), Biochemical Techniques (BIOL 3060),											
		_				ell Culture Techniques (BIOL									
Spring Semester 13-14 Cr				Immunology (BIOL 48 o). Additionally, one of the five must be designated as a Capstone course *鞭 « fu " #ž « ® šª œ fij ª « © ¥ē ˝ #ž											
BIOL ≥2000	Biotechnology Elective			Capstone course <sup>*</sup>	¥w≪tμ t#z	`«®, šªop®fi; ª«©¥ē·									
PHYS 2400	General Physics II			Spring Seme	ester		13-16 Credits								
	General Education/Exploration		-	BIOL ≥3000		ective (Capstone) (IH	IP)4								
	Free Elective	•••••	3	BIOL ≥2000	″¥k°¦O⊜a«	∝£µ Elective <b>OR</b>									
				Independent Study <b>OR</b> Internship 3-6											
					Free Elect	ive	3								
General Educatio	nn: Foundation				Free Elect	ive	3								
	; and Information Literacy (R and IL): First Year E	xperience	C I F.	l and a second and a		General Education: Inte	gration								
3 credits Writing (W): Writing I			General Education: Exploration 3 credits Civic Learning (CV)		9 credits AIA (3 of which must be Integrative										
3 credits Writing and Information Literacy (W and IL): Writing II			3 credits Diverse Perspectives (DP)			High Impact Practice - II	IIP)								
3 credits Quantitative Reasoning (QR) (MATH) 3 credits World Languages, Speaking and Listening (WS)			3 credits Ethical Reasoning (ER) 3 credits Fine Arts Expression and Analysis (FA) 3 credits Historical Inquiry and Analysis (HI) 3 credits Literary Inquiry and Analysis (LI)			OR  Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)									
											-	iterary Inquiry and Analy ersonal Wellness (PW)	'SIS (LI)		
											3 credits Procedural and Logical Thinking (PL)			General Education: MAJ  There may be major courses that have been approved to fulfill up to 2 General Education	
3 credits Scientific Inquiry and Analysis (SI)															

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

3 credits Scientific Inquiry and Analysis (SI)