SJSU B.S. BIOMEDICAL ENGINEERING

5-YEAR STUDY PLAN - Fall 2022

FALL				SPRING		
	Course Number	Course Title	Units	Course Number	Course Title	Units
Year I	Math 30/30X*	Calculus I	3	Math 31/31X*	Calculus II	4
	Comm 20	Oral Communication	3	Chem 1A	General Chemistry	5
	Engl 1A	Composition I	3	Engl 1B	Composition II	3
	Engr 10	Intro to Engr	3			
	* MATH 30X requires enrollment in MATH 30W.			* MATH 31X requires 6	enrollment in MATH 31W.	
	Total		12	Total		12
Year II	Chem 1B	General Chemistry	5	Math 33A/33LA	Ordinary Diff Eqs for SCI and ENGR	3
	Math 32/32X*	Calculus III	3	Biol 30	Principles of Biology I	4
	BME 25	Intro to BME Design	2	Phys 50	General Physics (Mechanics)	4
	Register to take	WST		AAS/AFAM/CCS 25**	The Changing Majority	3
	* MATH 32X requires enrollment in MATH 32W.			**Satisfies Area F: Ethnic Studies.		
	Total		10	Total		14
Year III	BME 115 †			oundations of BME		4
	BME 177 †		Phys	siology for Engineers		3
	AMS 1A	American Studies	6	AMS 1B	American Studies	6
	BME 135	Biomedical Engineering Design Methods	2	BME 65	Biomedical Applications of Statics	3
				BME 133	Programming Applications in BME	1
				Year III Total		25
Year IV	/ BME 130 † Numerical Methods in BME					3
	BME 147 †	E 147 † Quantitative & Statistical Methods for BME				
	BME 68	Biomed Applications of Ceramics/Metals	3	BME 116	Biosensors and Bioinstrumentation	3
	Chem 8	Organic Chemistry	3	BME 174	Biomedical Regulatory Requirements	3
	Phys 51	Electricity/Magnetism	4	Engr 100W	Engineering Reports	3
				Chem 9	Organic Chemistry	1
				Year IV Total		26
Year V	BME 117 † Biotransport Phenomena					3
	BME 165 †		Applied E	Engineering Biomechanics		3
	BME 168 †	168 † Medical/Biological Polymers				3
	BME 198A	Senior Project I	2	BME 198B	Senior Project II	2
	Engr 195A	Global/Social Issues	1	Engr 195B	Global/Social Issues	1
	One	course from Major Electives ‡	3	BME 178	Biomedical Product Realization	3
	† These BME courses can be taken either semester.			One cou	ırse from Major Electives ‡	3
	‡ A list of preapproved elective tracks is available on the BME department website.					
				Year V Total		24