## SJSU B.S. BIOMEDICAL ENGINEERING

## 4-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
	Chem 1A	General Chemistry	5	Chem 1B	General Chemistry	5
	Engl 1A	Composition I	3	Phys 50	Mechanics	4
	Engr 10	Intro to Engr	3	Engl 1B	Composition II	3
	Comm 20	Oral Communication	3			
	* MATH 30X requires enrollment in MATH 30W.			* MATH 31X require	es enrollment in MATH 31W.	
	Total		17	Total		16
Year II	Biol 30	Principles of Biology I	4	Chem 8	Organic Chemistry	3
	Math 32/32X*	Calculus III	3	Chem 9	Organic Chemistry Lab	1
	AMS 1A	American Civilization	6	AMS 1B	American Civilization	6
	BME 25	Intro to BME Design	2	Math 33A/33LA	Ordinary Diff Eqs for SCI and ENGR	3
	Register to take WS	ST		AAS/AFAM/CCS 25	** The Changing Majority	3
	* MATH 32X requires enrollment in MATH 32W.			**Satisfies Area F: Ethnic Studies.		
	Total		15	Total		16
Year III	II BME 115 † Foundations of BME				4	
	BME 177 †	BME 177 † Phys				3
	BME 130 †	Numerical Methods in BME				3
	BME 147 † Quantitative & Stat			& Statistical Methods for	or BME	3
	BME 68	Biomed Applications of Ceramics/Metals	3	BME 65	Biomed Applications of Statics	3
	Phys 51	Electricity/Magnetism	4	BME 174	Biomedical Regulatory Requirements	3
	Engr 100W	Engineering Reports	3	BME 133	Programming Applications in BME	1
	BME 135	Biomedical Engineering Design Methods	2			
	† These BME cours	es can be taken either semester.				
				Year III Total		32
Year IV	BME 117 †	Biotransport Phenomena				3
	BME 165 †	Applied Engineering Biomechanics				3
	BME 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 116	Biosensors and Bioinstrumentation	3
	† These BME cours	es can be taken either semester.		BME 178	Biomedical Product Realization	3
	‡ A list of preapproved elective tracks is available on the BME department website.  One course from Major Electives ‡				One course from Major Electives ‡	3
	2, 1,		-	Year IV Total		27
All clas	cos must be comp	leted with a grade of C- or better			TOTAL NUMBER OF UNITS	123