SJSU B.S. BIOMEDICAL ENGINEERING 4-YEAR STUDY PLAN - Fall 2021

	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
	* MATH 30X requires enrollment in MATH 30W.				** MATH 31X requires enrollment in MATH 31W.*		
	Total		14		Total		16
Year II	Biol 30	Principles of Biology I	4		Chem 8	Organic Chemistry	3
	Math 32/32X*	Calculus III	3		Comm 20	Oral Communication	3
	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 WST				Chem 9	Organic Chemistry Lab	1
	* MATH 32X requires enrollment in MATH 32W.						
	Total		15		Total		16

	FALL				**SPRING**		
Year III	BME 115 †			Foundations of BME			4
	BME 177 †			Physiology for Engineers			3
	BME 130 †			Numerical Methods in BME			3
	BME 68	BME Applics of Metals&Ceramics	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 116	Biosensors and Bioinstrumentation	3
	BME 135	Biomedical Engineering Design Methods	2		BME 133	Programming Applications in BME	1

† These BME courses can be taken either semester.

			Units
		Year III Total	32

	FALL				**SPRING**		
Year IV	BME 147 †			Quantitative & Statistical Methods for BME			3
	BME 117 †			Biotransport Phenomena			3
	BME 165 †			Applied Engineering Biomechanics			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
	BME 168	Medical/Biological Polymers	3		BME 178	Biomedical Product Realization	3
		One course from Major Electives ‡	3			One course from Major Electives ‡	3

† These BME courses can be taken either semester.

‡ A list of preapproved elective tracks is available on the BME department website.

			Units
		Year IV Total	27

		Units
All classes must be completed with a grade of C- or better	**TOTAL NUMBER OF UNITS**	**120**

A. Bellofiore – June 30, 2021