

SJSU B.S. BIOMEDICAL ENGINEERING 5-YEAR STUDY PLAN - Fall 2019

26-Nov-18

Fall				Spring			
	Course Number	Course Title	Units	Course Number	Course Title	Units	
Year I	Math 30	Calculus I	3	Math 31	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				
	Total		12	Total		12	
Year II	Chem 1B	General Chemistry	5	Math 133A/ Math 123	Ordinary Diff Eq, or Diff Eq and Linear Algebra	3	
	Math 32	Calculus III	3	Biol 30	Principles of Biology I	4	
	Phys 50	General Physics (Mechanics)	4	BME 25	Intro to BME Design	3	
				BME 65	Biomedical Appcals of Statics	2	
	Total		12	Total		12	
Year III	BME 115	Foundations of BME	4	Engr 100W	Engineering Reports	3	
	AMS 1A	American Studies	6	AMS 1B	American Studies	6	
	Phys 51	Electricity/Magnetism	4	BME 117	Biotransport Phenomena	3	
			14			12	
Year IV	BME 177	Physiology for Engineers	3	BME 068	Biomed Applications of Ceramics/Metals	3	
	BME 147	Quantitative & Statistical Methods for BME	3	Chem 9	Organic Chemistry	1	
	BME 130	Computational Methods in BME	3	BME 174	Biomedical Regulatory Requirements	3	
	Chem 8	Organic Chemistry	3		One course from Major Electives	3	
		Total		12	Total		10
Year V	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	
	EE 98	Circuit Analysis	3	BME 165	Applied Engr Biomechanics	3	
		One course from Major Electives	3		One course from Major Electives	3	
	Total		12	Total		12	
<i>G. Selvaduray</i>				TOTAL NUMBER OF UNITS			120

Important Notes

(1) Lower Division Core (LD core): Math 30*, Math 31*, Math 32*, Phys 50*, Phys 51, Chem 1A*, Chem 1B*, Biol 30*, Engr 10*, BME 25*, CE 99, MatE 25, and EE 98. Those with an asterisk (*) must be completed with a GPA of ≥ 2.0 , & no individual course grade $< C-$ before enrolling in Junior Core classes. The entire Lower Division Core, must be completed, also with a GPA of ≥ 2.0 , & no individual course grade $<$ than C- before enrolling in Senior Core classes. Co-enrollment of EE 98 with BME 198A is permitted.

(2) Junior Core: Math 133A or Math 123, BME 115, BME 117, BME 130, BME 174, BME 177, and Engr 100W. Must be completed with a GPA ≥ 2.0 , and no individual course grade $< C-$ before enrolling in Senior core classes.

(3) Senior Core: BME 147, BME 167, BME 175, BME 178, BME 198A, and BME 198B. The entire Senior Core must be completed with a GPA ≥ 2.0 and no individual course grade $< C-$.