

## SJSU B.S. BIOMEDICAL ENGINEERING 4-YEAR STUDY PLAN - Fall 2017

Fall				Spring			
	Course Number	Course Title	Units	Course Number	Course Title	Units	
<b>Year I</b>	Math 30	Calculus I	3	Math 31	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	
	Total			14	Total		
<b>Year II</b>	Biol 30	Principles of Biology I	4	Chem 8	Organic Chemistry	3	
	Math 32	Calculus III	3	Comm 20	Oral Communication	3	
	AMS 1A	American Civilization	6	AMS 1B	American Civilization	6	
	BME 25	Intro to BME Design	3	Math 133A/ Math 123	Ordinary Diff Eq, or Diff Eq and Linear Algebra	3	
	Total			16	Total		
<b>Year III</b>	BME 115	Foundations of BME	4	MatE 25	Intro to Mat Engr	3	
	Phys 51	Electricity/Magnetism	4	Engr 100W	Engineering Reports	3	
	BME 177	Physiology for Engineers	3	BME 174	Biomedical Regulatory Requirements	3	
	Chem 9	Organic Chemistry Lab	1	BME 117	Biotransport Phenomena	3	
	BME 130	Computational Methods in BME	3	CE 99	Introductory Statics	2	
Total			15	Total			14
<b>Year IV</b>	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 147	Quantitative & Statistical Methods for BME	3	BME 178	Biomedical Product Realization	3	
	BME 175	Biomaterials	3	BME 167	Biomechanics	3	
	EE 98	Circuit Analysis	3	One course from Major Electives			3
	One course from Major Electives			3	One course from Major Electives		
Total			15	Total			15
<i>G. Selvaduray</i>				<b>TOTAL NUMBER OF UNITS</b>			<b>120</b>

## 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  $\geq 2.0$ , & no individual course grade  $< C-$  before enrolling in Junior Core classes. The entire Lower Division Core must be completed, also with a GPA of  $\geq 2.0$ , & no individual course grade  $< C-$  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  $\geq 2.0$ , 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  $\geq 2.0$  and no individual course grade  $< C-$ .