

SJSU B.S. BIOMEDICAL ENGINEERING 4-YEAR STUDY PLAN - Fall 2019

30-10-2018

Fall				Spring		
	Course Number	Course Title	Units	Course Number	Course Title	Units
Year I	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		16
Year II	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		15
Year III	BME 115	Foundations of BME	4	BME 68	BME Applies of Metals/Ceramics	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	BME 65	Biomed Applies of Statics	2
	Total		15	Total		14
Year IV	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 168	Medical/Biological Polymers	3	BME 165	Applied Engineering Biomechanics	3
	EE 98	Circuit Analysis	3		One course from Major Electives	3
		One course from Major Electives	3		One course from Major Electives	3
	Total		15	Total		15
<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 $< C-$.