

SJSU B.S. BIOMEDICAL ENGINEERING 5-YEAR STUDY PLAN - Fall 2020

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
	BME 25	Intro to BME Design	3		Phys 50	General Physics (Mechanics)	4
	Total		11		Total		11
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
	Total		14		Total		12
Year IV	BME 68	Biomed Applications of Ceramics/Metals	3		BME 177	Physiology for Engineers	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		BME 65	Biomedical Applications of Statics	2
					BME 133	Programming	1
					BME 135	BME Design Methods	2
	Total		12		Total		12
Year V	BME 198A	Senior Project I	2		BME 198B	Senior Project II	2
	Engr 195A	Global/Social Issues Medical & Biological	1		Engr 195B	Global/Social Issues	1
	BME 168	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

All classes must be completed with a grade of C- or better

TOTAL NUMBER OF UNITS 120

Electives BME 182: Orthotics & Prosthetics
 BME 187: Medical Device Quality Systems
 BME 188: Biomedical Device Manufacturing

26-Nov-18