

## SJSU B.S. BIOMEDICAL ENGINEERING 4-YEAR STUDY PLAN - Fall 2020

Fall			
	Course Number	Course Title	Units
<b>Year I</b>	Math 30	Calculus I	3
	Chem 1A	General Chemistry	5
	Engl 1A	Composition I	3
	Engr 10	Intro to Engr	3
<b>Total</b>			<b>14</b>
<b>Year II</b>	Biol 30	Principles of Biology I	4
	Math 32	Calculus III	3
	AMS 1A	American Civilization	6
	BME 25	Intro to BME Design	3
<b>Total</b>			<b>16</b>
<b>Year III</b>	BME 115	Foundations of BME	4
	BME 68	BME Applies of Metals&Ceramics	3
	BME 177	Physiology for Engineers	3
	Chem 9	Organic Chemistry Lab	1
	BME 130	Numerical Methods in BME	3
<b>Total</b>			<b>14</b>
<b>Year IV</b>	BME 198A	Senior Project I	2
	Engr 195A	Global/Social Issues Quantitative &	1
	BME 147	Statistical Methods for BME	3
	BME 168	Medical/Biological Polymers	3
	EE 98	Circuit Analysis	3
	BME 65	Biomed Applications of Statics	2
<b>Total</b>			<b>14</b>

Spring			
	Course Number	Course Title	Units
	Math 31	Calculus II	4
	Chem 1B	General Chemistry	5
	Phys 50	Mechanics	4
	Engl 1B	Composition II	3
<b>Total</b>			<b>16</b>
	Chem 8	Organic Chemistry	3
	Comm 20	Oral Communication	3
	AMS 1B	American Civilization	6
	Math 33A/ Math 33AL	Ordinary Diff Eq, or Diff Eq & Lin Algebra	3
	BME 133	Programming Applications in BME	1
<b>Total</b>			<b>16</b>
	Phys 51	Electricity/Magnetism	4
	Engr 100W	Engineering Reports	3
	BME 174	Biomedical Regulatory Requirements	3
	BME 117	Biotransport Phenomena	3
	BME 135	BME Design Methods	2
<b>Total</b>			<b>15</b>
	BME 198B	Senior Project II	2
	Engr 195B	Global/Social Issues	1
	BME 178	Biomedical Product Realization	3
	BME 165	Applied Engineering Biomechanics	3
		One course from Major Electives	3
		One course from Major Electives	3
<b>Total</b>			<b>15</b>
<b>TOTAL NUMBER OF UNITS</b>			<b>120</b>

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

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