

## B.S. Bioengineering - Biomolecular Track

<b>Y1</b>	Fall	19	4	<b>MATH 11 (4)</b> Calculus I	5	<b>CHEM 11 (5)</b> Chemistry I	2	<b>ENGR 1 (2)</b> Intro Engineering	4	<b>BIOE 21 (4)</b> Intro Physiology	4	<b>CTW 1 (4)</b>	
	Winter	18	4	<b>MATH 12 (4)</b> Calculus II	5	<b>CHEM 12 (5)</b> Chemistry II	5	<b>PHYS 31 (5)</b> Physics I			4	<b>CTW 2 (4)</b>	
	Spring	18	4	<b>MATH 13 (4)</b> Calculus III	5	<b>CHEM 31 (5)</b> Organic Chemistry I	5	<b>PHYS 32 (5)</b> Physics II		4	<b>BIOE 10 (4)</b> Intro Bioengineering		
<b>Y2</b>	Fall	18	4	<b>MATH 14 (4)</b> Calculus IV	5	<b>CHEM 32 (5)</b> Organic Chemistry II	5	<b>PHYS 33 (5)</b> Physics III			4	<b>C&amp;I 1 (4)</b>	
	Winter	19			5	<b>BIOE 32 (5)</b> Intro Biochemical Engineering	5	<b>ELEN 50 (5)</b> Electric Circuits I		5	<b>BIOE 22 (5)</b> Intro Cell/Mol Bioeng	4	<b>C&amp;I 2 (4)</b>
	Spring	18					5	<b>BIOE 23 (5)</b> Intro Bio Devices	5	<b>BIOE 45 (5)</b> Programming	4	<b>BIOE 1A (4)</b> Transformations of Energy & Matter	4
<b>Y3</b>	Fall	17	4	<b>AMTH 106 (4)</b> Differential Equations	5	<b>BIOE 175 (5)</b> Biomol/Cellular Engineering I		<b>BIOE 120 (4)</b> Experimental Methods	4			4	<b>ENGR 19 (4)*</b> (Ethics)
	Winter	18			5	<b>BIOE 176 (5)</b> Biomol/Cellular Engineering II	5	<b>BIOE 162 (5)</b> Biosignals		4	<b>CORE</b>	4	<b>CORE</b>
	Spring	18			4	<b>BIOE 153 (4)</b> Biomaterials	5	<b>BIOE 163 (5)</b> Bio-Device Engineering		5	<b>BIOE 172 (5)</b> Intro Tissue Engineering	4	<b>ENGL 181 (4)</b> Engineering Comm
<b>Y4</b>	Fall	11	2	<b>BIOE 194 (2)</b> Senior Design I				<b>TE</b>	5			4	<b>CORE</b>
	Winter	14	2	<b>BIOE 195 (2)</b> Senior Design II				<b>TE</b>	4	<b>CORE</b>	4	4	<b>CORE</b>
	Spring	10	2	<b>BIOE 196 (2)</b> Senior Design III				<b>TE</b>	4			4	<b>CORE</b>

Bioengineering	Biology	Chemistry	Engineering	Math	Physics
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Technical Electives

≥ 8 units, at least 4 units must be upper-division BIOE courses

*\*ENGR 16 and ENGR 19 are recommended for engineering students as a way to satisfy the RTC 1 and Ethics requirements in the Core curriculum*