

# B.S. Bioengineering - Biomolecular Track

<b>Y1</b>	<b>Fall'22</b>	<b>18</b>	4	<b>MATH 11 (4)</b> Calculus I	5	<b>CHEM 11 (5)</b> Chemistry I	1	<b>BIOE 1 (1)</b> Intro Bioengineering	4	<b>BIOE 21 (4)</b> Intro Physiology	4	<b>CTW 1 (4)</b>		
	<b>Winter'23</b>	<b>19</b>	4	<b>MATH 12 (4)</b> Calculus II	5	<b>CHEM 12 (5)</b> Chemistry II	5	<b>PHYS 31 (5)</b> Physics I	1	<b>ENGR 1 (1)</b> Intro Engineering	4	<b>CTW 2 (4)</b>		
	<b>Spring'23</b>	<b>19</b>	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	1	<b>ENGR 1L (1)</b> Intro Engineering Lab	4	<b>BIOL 1A (4)</b> Transformations of Energy & Matter		
<b>Y2</b>	<b>Fall'23</b>	<b>18</b>	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				<b>ENGR 16 (4)*</b> (RTC 1)		
	<b>Winter'24</b>	<b>18</b>					5	<b>ELEN 50 (5)</b> Electric Circuits I	4	<b>BIOE 25 (4) or</b> <b>BIOE 24 (4)</b>	5	<b>BIOE 22 (5)</b> Intro Cell/Mol Bioeng	4	<b>C&amp;I 1 (4)</b>
	<b>Spring'24</b>	<b>19</b>	5	<b>BIOE 45 (5)</b> Programming	5	<b>BIOE 32 (5)</b> Intro Biochemical Engineering				5	<b>BIOE 23 (5)</b> Intro Bio Devices	4	<b>C&amp;I 2 (4)</b>	
<b>Y3</b>	<b>Fall'24</b>	<b>17</b>	4	<b>BIOE 153 (4)</b> Biomaterials	5	<b>BIOE 175 (5)</b> Biomol/Cellular Engineering I	4	<b>BIOE 120 (4)</b> Experimental Methods				4	<b>ENGR 19 (4)*</b> (Ethics)	
	<b>Winter'25</b>	<b>18</b>	4	<b>AMTH 106 (4)</b> Differential Equations	5	<b>BIOE 176 (5)</b> Biomol/Cellular Engineering II	4	<b>BIOE 172 (4)</b> Intro Tissue Engineering	5	<b>TE: BIOE 158 (4)</b> Soft Biomaterials				
	<b>Spring'25</b>	<b>18</b>			5	<b>BIOE 163 (5)</b> Bio-Device Engineering	5	<b>BIOE 162 (5)</b> Biosignals			4	<b>CORE</b>	4	<b>ENGL 181 (4)</b> Engineering Comm
<b>Y4</b>	<b>Fall'25</b>	<b>10</b>	2	<b>BIOE 194 (2)</b> Senior Design I						4	<b>CORE</b>	4	<b>CORE</b>	
	<b>Winter'26</b>	<b>14</b>	2	<b>BIOE 195 (2)</b> Senior Design II				4	<b>TE</b>	4	<b>CORE</b>	4	<b>CORE</b>	
	<b>Spring'26</b>	<b>10</b>	2	<b>BIOE 196 (2)</b> Senior Design III				4	<b>TE</b>			4	<b>CORE</b>	

Bioengineering	Biology	Chemistry	Engineering	Math	Physics
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

\*\* Offered in the Winter