

# B.S. Bioengineering - Pre-Med Track

<b>Y1</b>	Fall'22	18	4	MATH 11 (4) Calculus I	5	CHEM 11 (5) Chemistry I	1	BIOE 1 (1) Intro Bioengineering	4	ENGR 16 (4)* (RTC 1)	4	CTW 1 (4)
	Winter'23	19	4	MATH 12 (4) Calculus II	5	CHEM 12 (5) Chemistry II	5	PHYS 31 (5) Physics I	1	ENGR 1 (1) Intro Engineering	4	CTW 2 (4)
	Spring'23	19	4	MATH 13 (4) Calculus III	5	CHEM 31 (5) Organic Chemistry I	5	PHYS 32 (5) Physics II	1	ENGR 1L (1) Intro Engineering Lab	4	CORE
<b>Y2</b>	Fall'23	19	4	MATH 14 (4) Calculus IV	5	CHEM 32 (5) Organic Chemistry II	5	PHYS 33 (5) Physics III	5	ELEN 50 (5) Electric Circuits I		
	Winter'24	17			5	CHEM 33 (5) Organic Chemistry III	4	BIOE 25 (4) or BIOE 24 (4)		BIOL 1A (4) Transformations of Energy & Matter	4	C&I 1 (4)
	Spring'24	18	5	BIOE 45 (5) Programming			5	BIOE 23 (5) Intro Bio Devices		BIOL 1B (4) Information Flow	4	C&I 2 (4)
<b>Y3</b>	Fall'24	18	4	AMTH 106 (4) Differential Equations			5	BIOE 161 (5) Bioinstrumentation	4	BIOE 120 (4) Experimental Methods	5	BIOL 1C (5) Practical Biology
	Winter'25	17			5	BIOE 162 (5) Biosignals	4	BIOE 172 (4) Intro Tissue Engineering		TE	4	SOCI 1 (4) (Social Science)
	Spring'25	17	4	BIOE 153 (4) Biomaterials	5	CHEM 50 (5) Quantitative Analysis	4	BIOE 154 (4) or BIOE 155***(4)			4	ENGL 181 (4) Engineering Comm
<b>Y4</b>	Fall'25	16	2	BIOE 194 (2) Senior Design I	5	TE: CHEM 141 (5) Biochemistry I		BIOE 171 (5) Physiology & Anatomy	5		4	ENGR 19 (4)* (Ethics)
	Winter'26	10	2	BIOE 195 (2) Senior Design II						4	CORE	CORE
	Spring'26	10	2	BIOE 196 (2) Senior Design III						4	CORE	CORE

Bioengineering	Biology	Chemistry	Engineering	Math	Physics
Technical Electives	≥ 8 units, choose CHEM 141 (recommended) and an upper-division BIOE course				

\*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