

B.S. Bioengineering - Medical Device Track

Y1	Fall'22	18	4	MATH 11 (4) Calculus I	5	CHEM 11 (5) Chemistry I	1	BIOE 1 (1) Intro Bioengineering	4	BIOE 21 (4) Intro Physiology	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	BIOE 24 (4) Intro Mechanics/Modeling			
Y2	Fall'23	19	4	MATH 14 (4) Calculus IV	5	ELEN 50 (5) Electric Circuits I	5	PHYS 33 (5) Physics II	1	MECH 10L (1) Graphical Design Lab		4	ENGR 16 (4)* (RTC 1)		
	Winter'24	17	4	AMTH 106 (4) Differential Equations					4	BIOE 25 (4) Intro Biomedical Optics	5	BIOE 22 (5) Intro Cell/Mol Bioeng	4	C&I 1 (4)	
	Spring'24	19	5	BIOE 45 (5) Programming	5	BIOE 32 (5) Intro Biochemical Engineering				5	BIOE 23 (5) Intro Bio Devices	4	C&I 2 (4)		
Y3	Fall'24	17	4	BIOE 153 (4) Biomaterials			5	BIOE 161 (5) Bioinstrumentation	4	BIOE 120 (4) Experimental Methods		4	ENGR 19 (4)* (Ethics)		
	Winter'25	18			4	BIOE 155 (4) Biological Transport	5	BIOE 162 (5) Biosignals	5	BIOE 174 (5) Microfab & Microfluidics		4	CORE		
	Spring'25	17			4	BIOE 154 (4) Intro Biomechanics			5	TE: BIOE 159 (5) Hard Biomaterials	4	CORE	4	ENGL 181 (4) Engineering Comm	
Y4	Fall'25	15	2	BIOE 194 (2) Senior Design I			5	BIOE 171 (5) Physiology & Anatomy			4	CORE	4	CORE	
	Winter'26	10	2	BIOE 195 (2) Senior Design II					4	TE		4	CORE	4	CORE
	Spring'26	10	2	BIOE 196 (2) Senior Design III					4	TE		4	CORE	4	CORE

Bioengineering	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