

B.S. Bioengineering - Biomolecular Track

Y1	Fall '22	19	5	MATH 9 (5) Precalculus	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 11 (4) Calculus I	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 12 (4) Calculus II	5	CHEM 31 (5) Organic Chemistry I	5	PHYS 32 (5) Physics II	1	ENGR 1L (1) Intro Engineering Lab	4	BIOL 1A (4) Transformations of Energy & Matter		
Y2	Fall '23	18	4	MATH 13 (4) Calculus III	5	CHEM 32 (5) Organic Chemistry II	5	PHYS 33 (5) Physics III			4	ENGR 19 (4)* (Ethics)		
	Winter '24	18	4	MATH 14 (4) Calculus IV			5	ELEN 50 (5) Electric Circuits I		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 175 (5) Biomol/Cellular Engineering I			4	BIOE 120 (4) Experimental Methods	4	BIOE 24 (4) or BIOE 25 (4)		
	Winter '25	17	4	AMTH 106 (4) Differential Equations	5	BIOE 176 (5) Biomol/Cellular Engineering II	4	BIOE 172 (4) Intro Tissue Engineering				4	ENGR 16 (4)* (RTC 1)	
	Spring '25	18					5	BIOE 163 (5) Bio-Device Engineering	5	BIOE 162 (5) Biosignals	4	CORE	4	ENGL 181 (4) Engineering Comm
Y4	Fall '25	14	2	BIOE 194 (2) Senior Design I					4	TE	4	CORE	4	CORE
	Winter '26	15	2	BIOE 195 (2) Senior Design II					5	TE: BIOE 158 (5) Soft Biomaterials	4	CORE	4	CORE
	Spring '26	10	2	BIOE 196 (2) Senior Design III					4	TE			4	CORE

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Bioengineering	Biology	Chemistry	Engineering	Math	Physics
Technical Electives	≥ 13 units (see list on back)				

*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