

B.S. Bioengineering - Pre-Med Track

Y1	Fall	19	4	MATH 11 (4) Calculus I	5	CHEM 11 (5) Chemistry I		1	BIOE 1 (1) 1st year Seminars in Bioengineering	5	BIOE 45 (5) Programming	4	CTW 1 (4)	
	Winter	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	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	
Y2	Fall	18	4	MATH 14 (4) Calculus IV	5	CHEM 32 (5) Organic Chemistry II	5	PHYS 33 (5) Physics III				4	ENGR 16 (4)* (RTC 1)	
	Winter	17			5	CHEM 33 (5) Organic Chemistry III			4	BIOE 25 (4) Intro Biomedical Optics	4	BIOL 1A (4) Transformations of Energy & Matter	4	C&I 1 (4)
	Spring	17			5	BIOE 23 (5) Intro Bio Devices	4	BIOE 24 (4) Intro Mechanics/Modeling			4	BIOL 1B (4) Information Flow	4	C&I 2 (4)
Y3	Fall	18					5	BIOE 161 (5) Bioinstrumentation	4	BIOE 120 (4) Experimental Methods	5	BIOL 1C (5) Practical Biology	4	ENGR 19 (4)* (Ethics)
	Winter	13	4	AMTH 106 (4) Differential Equations					5	BIOE 162 (5) Biosignals			4	SOCI 1 (4) (Social Science)
	Spring	12	4	BIOE 153 (4) Biomaterials			4	BIOE 154 (4) or BIOE 155* (4)					4	ENGL 181 (4) Engineering Comm
Y4	Fall	14	2	BIOE 194 (2) Senior Design I	4	BIOE 172 (4) Intro Tissue Engineering	5	TE: CHEM 141 (5) Biochemistry I	3	TE				
	Winter	15	2	BIOE 195 (2) Senior Design II	5	BIOE 171 (5) Physiology & Anatomy					4	CORE	4	CORE
	Spring	10	2	BIOE 196 (2) Senior Design III							4	CORE	4	CORE
				Bioengineering		Biology		Chemistry		Engineering		Math		Physics

Technical Electives ≥ 8 units, choose CHEM 141 (recommended) and an upper-division BIOE course

Students in the pre-med track are also encouraged to complete a full year of lower-division chemistry by enrolling in CHEM 50

**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