B.S. Bioengineering - Biomolecular Track

Y1	**Fall**	**18**	4	**MATH 11 (4)** Calculus I	5	**CHEM 11 (5)** Chemistry I			1	**BIOE 1 (1)** 1st year Seminars in Bioengineering	4	**BIOE 21 (4)** Intro Physiology	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	**ENGR 19 (4)*** (Ethics)									
Y2	**Fall**	**18**	4	**MATH 14 (4)** Calculus IV	5	**CHEM 32 (5)** Organic Chemistry II	5	**PHYS 33 (5)** Physics III	4	**BIOE 32 (4)** Intro Biochemical Engineering													
	Winter	**17**	4	**AMTH 106 (4)** Differential Equations					4	**BIOE 25 (4)** Intro Biomedical Optics	5	**BIOE 45 (5)** Programming	4	**C&I 1 (4)**									
	Spring	**18**			5	**BIOE 22 (5)** Intro Cell/Mol Bioeng	5	**BIOE 23 (5)** Intro Bio Devices	4	**BIOE 24 (4)** Intro Mechanics/Modeling			4	**C&I 2 (4)**									
Y3	**Fall**	**17**	5	**BIOE 163 (5)** Bio-Device Engineering	4	**BIOE 172 (4)** Intro Tissue Engineering	4	**BIOE 120 (4)** Experimental Methods					4	**ENGR 16 (4)*** (RTC 1)									
	Winter	**14**	5	**BIOE 162 (5)** Biosignals	5	**BIOE 175 (5)** Biomol/Cellular Engineering I							4	**CORE**									
	Spring	**17**	4	**BIOE 153 (4)** Biomaterials	4	**BIOE 176 (4)** Biomol/Cellular Engineering II			5	**BIOE 171 (5)** Physiology & Anatomy			4	**ENGL 181 (4)** Engineering Comm									
Y4	**Fall**	**14**	2	**BIOE 194 (2)** Senior Design I					4	**TE**	4	**CORE**	4	**CORE**									
	Winter	**10**	2	**BIOE 195 (2)** Senior Design II					4	**TE**			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, 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*