

Biomedical Engineering Suggested Course Sequence for any track.

Fall, Freshman Year			Spring, Freshman Year		
BME 100 Introduction to BME	3		BME 120 or Computer Programming	3	
Calculus I	3		Calculus II	3	
Chemistry I lecture	4		Chemistry II lecture	4	
Physics I lec/lab	4		Physics II lec/lab	4	
DEC A WRT 102	3		MEC 203 Computer-Aided Drafting II	2	
	17			16	
Fall, Sophomore Year			Spring, Sophomore Year		
DEC F or BME 212	3		BME 212 or DEC F	3	
BIO 202 Molecular & Cellular Bio	3		BME 304 Genetic Engineering DEC H	3	
Calculus III	4		Calculus IV	4	
MEC 260 Engineering Statics	3		MEC 262 Engineering Dynamics	3	
Linear Algebra	3		DEC B	3	
	16			16	
Fall, Junior Year			Spring, Junior Year		
ESE 271 Electrical Circuit Analysis I	4		BME 301 Bioelectricity	3	
Probability and Statistics	3		BME 305 Biofluids	3	
BME 300 - Writing in BME	0		DEC G	3	
BIO 204 lab	2		open		
Technical Elective	3		Technical Elective	3	
Technical Elective	3		Technical Elective	3	
	15			15	
Fall, Senior Year			Spring, Senior Year		
BME 440 Senior Design in BME	3		BME 441 Senior Design in BME	3	
Technical Elective	3		Technical Elective	3	
Technical Elective	3		Technical Elective	3	
Technical Elective	3		Technical Elective	3	
DEC J	3		DEC I	3	
	15			15	

Required Engineering

BME 120 or Computer Programming	3	BME 120, ESG 111, CSE 130, ESE 124
MEC 203 Computer-Aided Drafting II	2	
MEC 260 Engineering Statics	3	
MEC 262 Engineering Dynamics	3	
ESE 271 Electrical Circuit Analysis I	4	
BME 100 Introduction to BME	3	
BME 212 Research Fundamentals	3	
BME 301 Bioelectricity	3	
BME 304 Genetic Engineering DEC H	3	
BME 305 Biofluids	3	
BME 440 Senior Design in BME	3	
BME 441 Senior Design in BME	3	
Total Required Engr	36	
Total Tech Electives	30	

Technical Electives (TE) - 30 credits (~10 courses)

15 TE credits must be Engineering (~5 courses)
Three (3) TE courses MUST BE BME, not 499
 6 credits of BME 499 may apply to TE,
 the rest still applies to Engineering

51 Engineering credits are needed for a BE in BME. 36 are required. 15 MUST BE Tech Electives (~5 courses).

The following courses must have a C or higher grade, or you will not graduate:

Calculus I and II, or A, B, C
 Physics I and II, or A, B, C
 BIO 202 or 203
 Chemistry I and II
 ESE 271
 All BME required courses (BME 100, 212, 301, 304, 305, 440, 441)

Pre-requisites for required BME courses are:

BME 100 BME major, BNG minor, dept consent
 BME 212 BME major, BME 100, MEC 260 (pre- or co-requisite)
 BME 304 BME 100, BIO 202 or 203
 BME 301 BME 212, ESE 271 (C or better), C Prog, BIO 202 or 203
 BME 305 BME 212, calculus III, IV, MEC 260, 262, BIO 202 or 203
 BME 440 BME major, U4, BME 301, BME 305
 BME 441 BME 440

Are credits for my minor or double major counted towards BME?

Double-dipping (counting credits twice) is permitted for:

any course required for both programs
 any course required by BME, but is a technical elective for the minor

if it is a TE for both programs, then choose one program
 if required for the other program,
 then you may not use it as a BME TE.

Be sure to check the rules that apply to double-dipping for the minor or double major programs.