BS Biomedical Engineering Suggested Four Year Plan
2021 – 2022 Catalog

*Pre-Health Students should consult with their advisors about additional course options.

A grade of C- or better is required

CS136 is required of students with no prior programming experience
C- or better needed

Description Course No

**Freshman**

Introduction to Bioengineering I BMEN 1100
Intro to Engineering ECS 1100
Differential Calculus or Calculus I MATH 2413 or 2417
General Chemistry I and Lab CHEM 1311/1111
Intro to Programming CS 1324
Freshman Seminar UNIV 1010
3 hours CORE: see below RHET 1302

**Sophomore**

Intro to Bioengineering II BMEN 1208
Integral Calculus or Calculus II MATH 2414 or 2419
Intro Organic Chemistry for Engrs CHEM 1312/1112
Mechanics and Heat PHYS 2225
Physics I Lab PHYS 2225
Linear Algebra for Engineers MATH 1340
Calculus of Several Variables (Summer) MATH 2415

**Junior**

Advanced Engineering Math BMEN 3300
Introductory Biology Lab Biol 1311
Cell and Molecular Engineering BMEN 3331
Probability & Statistics for BMEN BMEN 3341
Introductory Biomechanics BMEN 3379
Intro Organic Chemistry for Engineers CHEM 2324

**Senior**

Biomechanics Signals and Systems BMEN 3302
Thermo and Physical Chem for BMEN BMEN 3316
Electrical/Electronic Circuits in BMEN BMEN 3320
Electrical/Electronic Circuits Lab BMEN 2320
Quantitative Physiology for Engineers BMEN 3332
3 hours CORE: Choices Below

**Core Choices**

Rhet 1302

Pre-req Critical Path

Pre- or Co-requisite

Legend

Courses may be taken in any order, as long as prerequisites are met.

DESCRIPTION COURSE NO

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