

Suggested Arrangement of Courses, Biomedical Engineering (BSBiomedE)

Requirements		Hours
1st Semester		
BME 303L	Introduction to Biomedical Engineering Design (Major)	3
CH 301	Principles of Chemistry I (Core) ⁰³⁰	3
BIO 311C	Introductory Biology I (Core) ⁰⁹³	3
BIO 206L	Introductory Laboratory Experiments in Biology (Major)	2
M 408C	Differential and Integral Calculus (Core) ⁰²⁰	4
UGS 302	First-Year Signature Course (Core) ⁰⁹⁰	3
or UGS 303	First-Year Signature Course	
2nd Semester		
BME 303	Introduction to Computing (Major)	3
CH 302	Principles of Chemistry II (Core) ⁰³⁰	3
CH 204	Introduction to Chemical Practice (Major)	2
M 408D	Sequences, Series, and Multivariable Calculus (General Education)	4
PHY 303K & PHY 105M	Engineering Physics I and Laboratory For Physics 302K, 303K, and 317K (General Education)	4
RHE 306	Rhetoric and Writing (Core) ⁰¹⁰	3
3rd Semester		
BME 214L	Computational Fundamentals of Biomedical Engineering Design (Major)	2
BME 311	Network Analysis in Biomedical Engineering (Major)	3
CH 328M or CH 320M	Organic Chemistry I (Major)	3
M 427J	Differential Equations with Linear Algebra (General Education)	4
PHY 303L & PHY 105N	Engineering Physics II and Laboratory For Physics 302L, 303L, and 317L (General Education)	4
4th Semester		
E S 333T	Engineering Communication (General Education)	3
BME 313L	Introduction to Numerical Methods in Biomedical Engineering (Major)	3
BME 335	Engineering Probability and Statistics (Major)	3
BME 344	Biomechanics	3
BCH 369	Fundamentals of Biochemistry (Major)	3
Social and Behavioral Sciences (Core) ⁰⁸⁰		3

5th Semester		
BME 245L	Experimental Principles of Biomedical Engineering Design (Major)	2
BME 343	Biomedical Engineering Signal and Systems Analysis (Major)	3
BME 365R	Quantitative Engineering Physiology I (Major)	3
BME 352	Engineering Biomaterials (Major)	3
Elective (Major)		3
E 316L or E 316M or E 316N or E 316P	British Literature (Core) ⁰⁴⁰ American Literature World Literature Masterworks of Literature	3
6th Semester		
BME 261L	Development and Analysis in Biomedical Engineering Design (Major)	2
BME 349	Biomedical Instrumentation (Major)	3
BME 365S	Quantitative Engineering Physiology II (Major)	3
BME 353	Transport Phenomena in Living Systems (Major)	3
BME 355	Molecular Engineering (Major)	3
Elective (Major)		3
7th Semester		
BME 370	Biomedical Engineering Capstone Design I (Major)	3
Elective (Major)		3
GOV 310L	American and Texas Government ⁰⁷⁰	3
U.S. History (Core) ⁰⁶⁰		3
Visual and Performing Arts (Core) ⁰⁵⁰		3
8th Semester		
BME 371	Biomedical Engineering Capstone Design II (Major)	3
Elective (Major)		3
GOV 312L	Issues and Policies in American Government (Core) ⁰⁷⁰	3
U.S. History (Core) ⁰⁶⁰		3
Total Hours		132

Four-year degree suggestion (for planning purposes only).

Currently enrolled students should meet with their academic advisor.

Course categories: Core, General Education[†], Major, Elective, Opportunity

Core Component Areas: ⁰¹⁰ Communication; ⁰²⁰ Mathematics; ⁰³⁰ Natural Science and Technology, Part I; ⁰⁴⁰ Humanities; ⁰⁵⁰ Visual and Performing Arts; ⁰⁶⁰ U.S. History; ⁰⁷⁰ American and Texas Government; ⁰⁸⁰ Social and Behavioral Sciences; ⁰⁹⁰ First-Year Signature Course; ⁰⁹³ Natural Science and Technology, Part II

Undergraduate Degree Program listing

[†] Effective April 2025, UT Austin no longer requires Skills and Experience flags.