

Biomedical Engineering

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
BME 101	MATH 126	BME 202	BME 210	BME 423	BME 302L	BME 403L	BME 405L
ENGR 102	CHEM 105bL	MATH 226	MATH 245	BME ELECTIVE	TECHNICAL ELECTIVE	BME 413	BME 410L
MATH 125	GEN ED	PHYS 151L	BISC 220L	EE 202L	CHEM 322bL	TECHNICAL ELECTIVE	BME 415 or 416L
CHEM 105aL	GEN ED	GEN ED	PHYS 152L	CHEM 322aL	GEN ED	BISC 320L	TECHNICAL ELECTIVE
WRIT 150	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	OPTIONAL ELECTIVE	WRIT 340	GEN ED

ENGINEERING

BME 101: Introduction to Biomedical Engineering
BME 202: Control & Communication in the Nervous System
BME 210: Biomedical Computer Simulation Methods
BME 302L: Medical Electronics
BME 403L: Physiological Systems
BME 405L: Senior Projects: Measurements & Instrumentation
BME 410: Introduction to Biomaterials & Tissue Engineering
BME 413: Bioengineering Signals & Systems
BME 415: Regulation of Medical Products
BME 416L: Development and Regulation of Medical Products
BME 423: Statistical Methods in Biomedical Engineering
EE 202L: Linear Circuits
ENGR 102: Engineering Freshman Academy
BME & TECHNICAL ELECTIVES: Specialized upper division courses you choose for your major/specialization.

MATHEMATICS

MATH 125: Calculus I
MATH 126: Calculus II
MATH 226: Calculus III
MATH 245: Mathematics of Phys. & Engr.

SCIENCE

BISC 220L: Cell Biology & Physiology
BISC 320L: Molecular Biology
CHEM 105aL: General Chemistry
CHEM 322aL: Organic Chemistry
PHYS 151L: Mechanics & Thermodynamics
PHYS 152L: Electricity & Magnetism

GENERAL EDUCATION

As a USC Viterbi student your General Education (Gen Ed) curriculum will include courses in the Arts, Humanistic Inquiry and Social Analysis.

WRITING

WRIT 150: Writing & Critical Reasoning
WRIT 340: Advanced Writing

ELECTIVES

Your optional electives are one way to build engineering+ into your curriculum by choosing classes of interest to you.



Courses with this symbol may be satisfied with certain AP, IB or A-Level exams. With each requirement you replace with prior credit, you increase your optional electives, creating more flexibility for you to pursue additional electives and increase your engineering+ education.

This is a simplified version of a complex curriculum with options and choices made between advisor and student. Course choices can vary by semester and adjust to include relevant topics and materials. Although every attempt has been made to ensure accuracy, the program requirements listed in the USC Catalogue supersede any information which may be contained in this or any other publication of any school or department. The information found in this document is not intended for advising purposes. The University reserves the right to change its policies, rules, regulations, requirements and course offerings at any time.