

First year

BMME	101	Frontiers of Biomedical Engineering ¹	1
MATH	231	Calculus of Functions of One Variable ²	3
MATH	232	Calculus of Functions of One Variable II ²	3
PHYS	116/118	Mechanics ²	4
CHEM	101, 101L	General Chemistry I and Lab ²	4
CHEM	102, 102L	General Descriptive Chem and Lab	4
ENGL	105 / 105I	English Composition and Rhetoric ³	3
		Foreign Language 3	3

1. Strongly recommended, but not required. Course provides an introduction to biomedical engineering tools and topics and information about the curriculum.
2. Students must earn a C or better in this course in order to apply for the major.
3. Students must earn a C- or better in this course in order to apply for the major.

Sophomore year

Fall or Spring:

MATH	233	Calculus of Functions of Several Variables	3
MATH	383, 383L	Linear Algebra and Differential Equations	4
PHYS	117/119	Electromagnetism and Optics	4
BMME	210	BME Design and Manufacturing I	2
BIOL	101, 101L	Principles of Biology with Lab	4
BIOL	202	Molecular Biology and Genetics	4
COMP		Introductory Programming Elective (COMP 116 highly recommended, but you can choose from COMP 116, 401, PHYS 331 or, in summer, BMME 201)	3

Fall only:

BMME	160	Statics	3
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Spring only:

BMME	150	Introduction to Material Sciences	3
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Junior year

Fall or Spring:

BMME	310	BME Design and Manufacturing II	2
BIOL	252	Fund. Of Hum. Anatomy and Physiol.	4
MATH	528	Mathematical Methods for the Physical Sciences I (lab section is optional)	3
STOR		Statistics Elective (choose from STOR 435 or STOR 455)	3
		BME Specialty Elective 1	3

Fall only:

BMME	350	Fundamentals of Biomedical Electronics	4
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Spring only:

BMME	351	Human Physiology and Biological Measurements	4
BMME	465	Biomedical Instrumentation	4
BMME	410	Signals and Systems	3

Senior year

Fall or Spring:

		BME Specialty Elective 2	3
		BME Specialty Elective 3	3
		BME Specialty Elective 4	3

Choose ONE of the following (additional courses taken count as a BME Specialty Elective)

BMME	315	Biotransport (formerly BMME 475) (fall)	3
BMME	345	Biomedical Solid Mechanics (formerly BMME 505) (fall)	3
BMME	441	Thermodynamics (fall)	3
BMME	405	Biomechanics of Movement (spring)	3
BMME	455	BioFluid Mechanics (no longer offered)	3

Fall only:

BMME	697	Senior Design Project	3
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Spring only:

BMME	698	Senior Design Project	3
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Any semester⁵

Approaches class: Historical Analysis (HS) ⁴	3
Approaches class: Social and Behavioral Science (SS,HS) ⁴	3
Approaches class: Social and Behavioral Science (SS,HS) ⁴	3
Approaches class: Philosophical and Moral Reasoning (PH)	3
Approaches class: Literary Arts (LA)	3
Approaches class: Visual and Performing Arts (VP)	3
Lifetime Fitness	1

Approaches classes must also meet connections⁵ no additional credit hours

US Diversity (US)
North Atlantic World (NA)
Beyond the North Atlantic World (BN)
World Before 1750 (WB)
Global Issues (GL)

4. Social and Behavioral Science or Historical Analysis classes must come from two different departments
5. Other approaches and connections requirements are met by required courses