

**BIOMEDICAL ENGINEERING (BME)**  
Program of Study — Catalog Year 2023-2024

	Fall Semester				Spring Semester			
	Terms Offered	Course	Course Title	Hrs.	Terms Offered	Course	Course Title	Hrs.
<b>Freshman</b>	F, Sp, Su	CH 115/R/116	General Chemistry I/Lab	4	F, Sp, Su	BY 123/L	Introductory Biology I/Lab	4
	F	EGR 200 <sup>1</sup>	Introduction to Engineering	3	F, Sp, Su	CH 117/R/118	General Chemistry II/Lab	4
	F, Sp, Su	EH 101	English Composition I	3	Sp	EGR 194	Engineering Explorations	1
	F, Sp, Su	MA 125/L	Calculus I/Lab	4	F, Sp	EGR 103	Computer-Aided Graphics & Design	3
					F, Sp, Su	MA 126	Calculus II	4
		<b>Total Credits</b>	<b>14</b>			<b>Total Credits:</b>	<b>16</b>	
<b>Sophomore</b>	F, Sp, Su	BY 210/L <sup>6</sup>	Genetics/Lab	4	Sp	BME 210	Engineering in Biology	3
	F, Sp	EGR 265 <sup>2</sup>	Math Tools for Engineering Problem Solving	4	F, Sp, Su	CE 210	Statics	3
	F, Sp, Su	PH 221/R/L	General Physics I/Lab	4	F, Sp, Su	EE 312	Electrical Systems	3
	F, Sp	MA 260	Introduction to Linear Algebra	3	F, Sp	EGR 150	Computer Methods in Engineering	3
	F, Sp	MSE 280	Engineering Materials	3	F, Sp, Su	PH 222/R/L	General Physics II/Lab	4
		<b>Total Credits</b>	<b>18</b>			<b>Total Credits:</b>	<b>16</b>	
<b>Junior</b>	F	BME 310	Biomaterials	3	Sp	BME 333	Biomechanics of Solids	3
	F	BME 312	Biocomputing	3	Sp	BME XXX	Biomedical Engineering Elective	3
	F	BME 313	Bioinstrumentation	3	Sp	BME 350	Biological Transport Phenomena	3
	F	BME 370	Integrated Physiology	3	Sp	BME 423	Living Systems Analysis & Biostatistics	3
	F, Sp, Su	ME 215/R	Dynamics	3	F, Sp, Su	EH 102	English Composition II	3
				F, Sp, Su	Blazer Core <sup>4</sup>	Creative Arts	3	
		<b>Total Credits</b>	<b>15</b>			<b>Total Credits:</b>	<b>18</b>	
<b>Senior</b>	F	BME 498	Capstone Design I	3	Sp	BME 499	Capstone Design II	3
	F, Sp	BME 4XX	Biomedical Engineering Elective	3	F, Sp	BME 4XX	Biomedical Engineering Elective	3
	F, Sp	BME 401 <sup>5</sup>	Biomedical Engineering Seminar	1	F, Sp, Su	Blazer Core <sup>4</sup>	History & Meaning	3
	F, Sp, Su	Elective <sup>2,3</sup>	MA/SCI/EGR/BME Elective	3	F, Sp, Su	Blazer Core <sup>4,7</sup>	City as a Classroom	3
	F, Sp, Su	Elective <sup>3</sup>	MA/SCI/EGR/BME Elective	3	F, Sp, Su	Blazer Core <sup>4</sup>	Reasoning	3
	F, Sp, Su	Blazer Core <sup>4</sup>	Humans & Their Societies	3				
		<b>Total Credits</b>	<b>16</b>			<b>Total Credits:</b>	<b>15</b>	

1 EGR 200 preferred, other FYE courses accepted

2 May substitute MA 227 and MA 252 for EGR 265 and one MA/SCI/EGR/BME elective

3 Students using this curriculum as a pre-health professional program (pre-med, pre-dental or pre-optometry) may use CH 235, CH 237, or CH 460 for this elective

4 Please refer to the Blazer Core as specified for engineering majors

5 May be taken any semester

6 May substitute BY 115/L

7 CE 280 preferred, other CAC accepted