BESA-Biomedical Engineering

Bachelor of Engineering Studies and Arts (BESA)

College of Engineering (ENG) Concentration in Biomedical Engineering

<u>93 units (minimum)</u>

27 units minimum

Advisor: Kristin Kropf, SCOT 4N117, 412-268-3955, kgaluska@andrew.cmu.edu

Mathematics & Science Prerequisites

21-120	Differential and Integral Calculus (Gen Ed)	10
21-122	Integration and Approximation (Gen Ed)	10
21-254	Linear Algebra and Vector Calculus for Engineers	11
21-260	Differential Equations	9
15-110	Principles of Computing	10
33-141	Physics I for Engineering Students (Gen Ed)	12
33-142	Physics II for Engineering and Physics Students	12
03-121	Modern Biology	9
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Biomed	ical Engineering Courses 66 un	its
42-101	Introduction to Biomedical Engineering	12
	(First-year)	
XX-XXX	2 nd Introduction to Engineering course, student's choice	12
42-202	Physiology	9
	(Sophomore year; prereq: 03-121/03-151)	
42-203	Biomedical Engineering Laboratory	9
	(Sophomore year; prereq: 42-101, 03-121/03-151)	
42-302	Biomedical Engineering Systems Modeling and Analysis	9
	(Junior year; prereq: 06-262/18-202/21-260)	
42-401	Foundation of BME Design	6
	(Fall, Senior year; prereq: 42-101)	
42-402	BME Design Project	9
	(Spring, Senior year)	

Electives

Choose 3 elective courses in BME tracks and/or ENG with prerequisites in consultation with the concentration advisor.

Fall 2024