Fall 2023

66 units

9

BESA-Biomedical Engineering

Bachelor of Engineering Studies and Arts (BESA)

College of Engineering (ENG) Concentration in Biomedical Engineering

93 units (minimum)

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

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

Electives 27 units minimum

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

(Fall, Senior year; prereq: 42-101)

BME Design Project

(Spring, Senior year)

42-402

BESA Free Electives