

Biomedical Engineering (BESA Concentration)

Kristin Kropf, BESA BME Concentration Advisor (SCOT 4N300C)

BESA Biomedical Engineering Concentration

(93 units minimum)

Mathematics & Science Prerequisites

		Units
21-120	Differential and Integral Calculus -(Gen Ed; prerequisite: 21-090)	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 -(Gen Ed)	10
or 15-112	Fundamentals of Programming and Computer Science	
or 02-120	Programming for Scientists	
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

Biomedical Engineering Courses (7 courses, 66 units)

42-101	Introduction to Biomedical Engineering -First-year	12
xx-xxx	2nd Introduction to Engineering course, student's choice	12
42-202	Physiology -Sophomore year; prereq: 03-121/03-151	9
42-203	Biomedical Engineering Laboratory -Sophomore year; prereq: 42-101, 03-121/03-151	9
42-302	Biomedical Engineering Systems Modeling and Analysis -Junior year; prereq: 06-262/18-202/21-260	9
42-401	Foundation of BME Design -Fall, Senior year; prereq: 42-101	6
42-402	BME Design Project -Spring, Senior year	9

Electives (3 courses, 27 units minimum)

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