



Approved 10 Sept 2024 by Prof. Amanda Lowery

Semester 1	Course	Hrs
CHEM 1601, 1601L	General Chemistry	4
ES 1401, 1402, 1403	Intro to Engineering	3
MATH 1300	Acc Single-Var Calculus I	4
	LAC	3
	Vanderbilt Visions	0
	total hours	14

Semester 2	Course	Hrs
CHEM 1602, 1602L	General Chemistry	4
CS 1100, 1101, 1103, or 1104	Programming	3
MATH 1301	Acc Single-Var Calculus II	4
PHYS 1601, 1601L	General Physics I	4
BME 1015	Innovations and Careers in BME	1
	total hours	16

Semester 3	Course	Hrs
BME 2301	Systems Physiology I	3
MATH 2300	Multivariable Calculus	3
BSCI 1510/1510L	Introduction to Biological Sciences and Lab	4
PHYS 1602/1602L	General Physics II and Lab	4
LAC	LAC Elective	3
	total hours	17

Semester 4	Course	Hrs
BME 2302	Systems Physiology II	3
BME 2100	Introductory Biomechanics	3
BME 2400	Quantitative Methods I	3
BME 2900W	Biomedical Engineering Lab I	1
MATH 2400	Differential Equations with Linear Algebra + Recitation	4
ECE 2112	Circuits I	3
	total hours	17

Semester 5	at Nat'l Univ Singapore	Hrs
BME	BME Elective	3
BME	BME Elective	3
LAC	LAC Elective	3
TECH	Tech Elective	3
Open	Open Elective	3
	total hours	15

Semester 6	Course	Hrs
BME 3000	Physiological Transport Phenomena	3
BME 3301	Biomedical Instrumentation I	4
BME 3500	Biomaterials	3
BME 3400	Quantitative Methods II	3
BME 3900W	Biomedical Engineering Lab II	1
LAC	LAC Elective	3
	total hours	17

Semester 7	Course	Hrs
BME 3302	Biomedical Instrumentation II	4
BME 4950	BME Design	2
BME 4959	Design Seminar	1
BME	BME Elective	3
TECH	Technical Elective	3
Open	Open Elective	2
	total hours	15

Semester 8	Course	Hrs
BME 4951	BME Design	3
BME	BME Elective	3
TECH	Tech Elective	3
BME 4901W	Biomedical Engineering Lab III	1
LAC	LAC Elective	3
Open	Open Elective	3
	total hours	16

total hours = 127

This curriculum plan is a guide that follows the BME degree requirements as of fall 2024. It is NOT authoritative. The Undergraduate Catalog is the authoritative document regarding degree requirements. Students considering studying abroad should consult the catalog and discuss their plans with their academic advisers.