Model Study Path for BENGEGU4 BME 2022 Catalogue Term (non-CES mode)

Yr	Sem	College Requirements / Gateway Education (GE): College-specified Courses				GE: English@	Gateway Education & Others		CUs
1	A	PHY1201 General Physics I (3)	CHEM1200 Discovery in Biology (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	BME2105 Introduction to Biomedical Engineering (3)	GE1401 University English (3)			15
	B	CHEM1300 Principles of General Chemistry (3)	CS1302 Introduction to Computer Programming (3)	MA1201 Calculus and Basic Linear Algebra I / MA1301 Enhanced Calculus and Linear Algebra II (3)		GE2410 English for Engineering (3)		GE 1 (3)	15
	S					Reserve for missed courses /	Reserve for missed courses		
		Major Requirements							
2	A	BME2102 Introduction to Biomechanics (3)	MA2177 Engineering Mathematics and Statistics (3)	BME2029 Electrical and Electronic Principles (3)	BME2036 Engineering Computing (3)		GE1501 Chinese Civilisation – History and Philosophy (3)		15
	B	BME2122 Biological Thermofluids (3)	BME2121 Artificial Intelligence in Biomedical Engineering (3)	BME2103 Medical Biotechnology in Imaging and Measurement (3)	BME2106 Introduction to Cellular and Biomolecular Engineering (3)			GE 2 (3)	15
	S						Reserve for missed courses		
3	A	BME4103 Bio-safety and Security (3)	BME3121 Biomedical Signals and Systems (3)	BME3123 Materials for Biomedical Engineering (3)	BME2104 Tissue Engineering (3)			GE 3 (3)	15
	B	BME3102 Human Quantitative Physiology (3)	BME4101 Biomedical Instrumentation (3)	BME3103 Bio-sensors and Bio-devices (3)	CS4465 Computational Biology and Bioinformatics (3)	Major Elective 1 (3)			15
	S				Reserve for IAS or taking some Elective courses available /		Reserve for missed courses		
4	A	BME4102 Final Year Project (3)	BME3104 Robotic Technology in Healthcare (3)	Major Elective 2 (3)	Major Elective 3 (3)			GE 4 (3)	15
	B	BME4102 Final Year Project (6)	BME2066 Professional Engineering Practice (3)	Major Elective 4 (3)			Free Elective (3)		15
	S				Reserve for missed Elective courses /		Reserve for missed courses		
( ) indicates number of credits							**Total credits (minimum):**		**120**

@ *Students whose entry qualifications in HKDSE English Language is below Level 4 are required to take LC0200A and/or LC0200B, and should take the GE English courses in the following semesters/terms.*

Note 1: Students may alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied and all graduation requirements could be met within the normative study period.

Note 2: Students can take Major electives from Year 3 depending on their overall study plan.

11 August 2022

Model Study Path for BENGEGU4 BME 2022 Catalogue Term (Optional CES mode)

Yr	Sem	College Requirements / Gateway Education (GE): College-specified Courses				GE: English@	Gateway Education & Others		CUs
1	**A**	PHY1201 General Physics I (3)	CHEM1200 Discovery in Biology (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	BME2105 Introduction to Biomedical Engineering (3)	GE1401 University English (3)			**15**
	B	CHEM1300 Principles of General Chemistry (3)	CS1302 Introduction to Computer Programming (3)	MA1201 Calculus and Basic Linear Algebra I / MA1301 Enhanced Calculus and Linear Algebra II (3)		GE2410 English for Engineering (3)		GE 1 (3)	**15**
	S					Reserve for missed courses /	Reserve for missed courses		
		Major Requirements							
2	**A**	BME2102 Introduction to Biomechanics (3)	MA2177 Engineering Mathematics and Statistics (3)	BME2029 Electrical and Electronic Principles (3)	BME2036 Engineering Computing (3)		GE1501 Chinese Civilisation – History and Philosophy (3)		**15**
	B	BME2122 Biological Thermofluids (3)	BME2121 Artificial Intelligence in Biomedical Engineering (3)	BME2103 Medical Biotechnology in Imaging and Measurement (3)	BME2106 Introduction to Cellular and Biomolecular Engineering (3)			GE 2 (3)	**15**
	S						Reserve for missed courses		
3	**A**	BME4103 Bio-safety and Security (3)	BME3121 Biomedical Signals and Systems (3)	BME3123 Materials for Biomedical Engineering (3)	BME2104 Tissue Engineering (3)	Major Elective 1 (3)			**15**
	B	BME3102 Human Quantitative Physiology (3)	BME4101 Biomedical Instrumentation (3)	BME3103 Bio-sensors and Bio-devices (3)	CS4465 Computational Biology and Bioinformatics (3)	Major Elective 2 (3)			**15**
	S						GE 3 (3)	GE 4 (3)	**6**
4	**A**	BME4102 Final Year Project (3)	BME3104 Robotic Technology in Healthcare (3)		CES FS4001 (4)	Major Elective 3 (3)			**13**
	B	BME4102 Final Year Project (6)	BME2066 Professional Engineering Practice (3)		CES FS4001 (4)	Major Elective 4 (3)			**16**
	S					Reserve for missed Elective courses /	Reserve for missed courses		
( ) indicates number of credits							**Total credits (minimum):**		**125**

@ *Students whose entry qualifications in HKDSE English Language is below Level 4 are required to take LC0200A and/or LC0200B, and should take the GE English courses in the following semesters/terms.*

Note 1: Students may alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied and all graduation requirements could be met within the normative study period.

Note 2: Students can take Major electives from Year 3 depending on their overall study plan.

11 August 2022