

**Model Study Path for BENGEGU4 BME 2017 Cohort (non-CES mode)
(For those entering Year 2 with completion of BCH1200)**

Yr	Sem	College Requirements	Gateway Education (GE): College/School-specified Courses			GE: English [@]	Gateway Education & Others		CU
1	A	Science 1 (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	CS1102 Introduction to Computer Studies / CS1302 Introduction to Computer Programming (3)		GE1401 University English (3)		GE 1 (3)	15
	B	Science 2 (3)	MA1201 Calculus and Basic Linear Algebra I / MA1301 Enhanced Calculus and Linear Algebra II (3)			GE2410 English for Engineering (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	GE 2 (3)	15
	S	Reserve for missed courses /						Reserve for missed courses	
Major Requirements									
2	A	PHY1201 General Physics I (3) or BCH1100 Chemistry (3) or BCH1200 Discovery in Biology (3) [#]	MA2177 Engineering Mathematics and Statistics (3)	BME2029 Electrical and Electronic Principles (3)	BME2105 Introduction to Biomedical Engineering (3)	BCH2013 Microbiology (3) [^]			15
			MNE2109 Engineering Mechanics (3)	MNE2101 Thermo and Fluid Dynamics (3)					
	B	BME2102 Introduction to Biomechanics (3)	MNE2109 Engineering Mechanics (3)	MNE2101 Thermo and Fluid Dynamics (3)	BME2103 Medical Biotechnology in Imaging and Measurement (3)	BMS2801 Molecules and Cells (3)			15
S	Reserve for missed courses /						Reserve for missed courses		
3	A	BME4103 Bio-safety and Security (3)	MSE3130 Biomaterials (3)	EE3919 Medical Imaging and Signal Processing (3)	BME2104 Tissue Engineering (3)	BME3104 Health Maintenance and Wellness Technology (3)			15
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	Major Elective 1 (3)			GE 3 (3)	15
	S	Reserve for IAS or taking some Elective courses available /						Reserve for missed courses	
4	A	BME4102 Final Year Project (3)	BME4101 Biomedical Instrumentation (3)	Major Elective 2 (3)	Major Elective 3 (3)			GE 4 (3)	15
	B	BME4102 Final Year Project (6)	BME4066 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 EL0200A and/or EL0200B, and should take the GE English courses in the following semesters/terms.

[#] Students are required to complete PHY1201, BCH1100 or BCH1200 whichever is not taken as Science 1 and Science 2.

[^] Students who have not satisfied the pre-requisite course BCH1200 by the end of Year 1 may take BCH2013 in Year 3 Semester A and another course in Year 2 Semester A if timetable permits.

Note 1: Under special circumstances, students may be allowed to register for courses in the grey boxes if pre-requisite requirements have been satisfied.

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

**Model Study Path for BENGEGU4 BME 2017 Cohort (Optional CES mode)
(For those entering Year 2 with completion of BCH1200)**

Yr	Sem	College Requirements	Gateway Education (GE): College/School-specified Courses			GE: English@	Gateway Education & Others		CUs
1	A	Science 1 (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	CS1102 Introduction to Computer Studies / CS1302 Introduction to Computer Programming (3)		GE1401 University English (3)		GE 1 (3)	15
	B	Science 2 (3)	MA1201 Calculus and Basic Linear Algebra I / MA1301 Enhanced Calculus and Linear Algebra II (3)			GE2410 English for Engineering (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	GE 2 (3)	15
	S	Reserve for missed courses					Reserve for missed courses		
Major Requirements									
2	A	PHY1201 General Physics I (3) or BCH1100 Chemistry (3) or BCH1200 Discovery in Biology (3)#	MA2177 Engineering Mathematics and Statistics (3)	BME2029 Electrical and Electronic Principles (3)	BME2105 Introduction to Biomedical Engineering (3)	BCH2013 Microbiology (3)^			15
			MNE2109 Engineering Mechanics (3)	MNE2101 Thermo and Fluid Dynamics (3)					
	B	BME2102 Introduction to Biomechanics (3)	MNE2109 Engineering Mechanics (3)	MNE2101 Thermo and Fluid Dynamics (3)	BME2103 Medical Biotechnology in Imaging and Measurement (3)	BMS2801 Molecules and Cells (3)			15
			MA2177 Engineering Mathematics and Statistics (3)	BME2029 Electrical and Electronic Principles (3)					
S	Reserve for missed courses					Reserve for missed courses			
3	A	BME4103 Bio-safety and Security (3)	MSE3130 Biomaterials (3)	EE3919 Medical Imaging and Signal Processing (3)	BME2104 Tissue Engineering (3)	BME3104 Health Maintenance and Wellness Technology (3)			15
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	Major Elective 1 (3)	Major Elective 2 (3)			15
	S						GE 3 (3)	GE 4 (3)	6
4	A	BME4102 Final Year Project (3)	BME4101 Biomedical Instrumentation (3)			CES FS4001 (4)	Major Elective 3 (3)		13
	B	BME4102 Final Year Project (6)	BME4066 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 EL0200A and/or EL0200B, and should take the GE English courses in the following semesters/terms.

Students are required to complete PHY1201, BCH1100 or BCH1200 whichever is not taken as Science 1 and Science 2.

^ Students who have not satisfied the pre-requisite course BCH1200 by the end of Year 1 may take BCH2013 in Year 3 Semester A and another course in Year 2 Semester A if timetable permits.

Note 1: Under special circumstances, students may be allowed to register for courses in the grey boxes if pre-requisite requirements have been satisfied.

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