Model Study Path for BENGEGU3 BME 2022 Catalogue Term - Advanced Standing Ia (non-CES mode)
(for those who satisfy the pre-requisite for MA1201)

Yr	Sem	Major Requirements						University Requirements		CUs
1	A	PHY1201 General Physics I (3) or CHEM1300 Principles of General Chemistry (3) or CHEM1200 Discovery in Biology (3)[#+]	BME2029[+] Electrical and Electronic Principles (3)	BME2105[+] Introduction to Biomedical Engineering (3)	BME2036[+] Engineering Computing (3)	MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		15/18[+]
	B	CS1302[+] Introduction to Computer Programming (3)	BME2122[+] Biological Thermofluids (3)	BME2103[+] Medical Biotechnology in Imaging and Measurement (3)	BME2106[+] Introduction to Cellular and Biomolecular Engineering (3)			English (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	15/18[+]
	S							Reserve for missed courses		
2	A	BME2102[+] Introduction to Biomechanics (3)	BME2104[+] Tissue Engineering (3)	BME3123 Materials for Biomedical Engineering (3)	BME4103 Bio-safety and Security (3)	MA2177[+] Engineering Mathematics & Statistics (3)			GE 1 (3)	15/18[+]
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	BME2121[+] Artificial Intelligence in Biomedical Engineering (3)		Major Elective 1 (3)		GE 2 (3)	15/18[+]
	S				Reserve for IAS or taking some Elective courses available / Reserve for missed courses					
3	A	BME4102 Final Year Project (3)	BME3104 Robotic Technology in Healthcare (3)			BME3121 Biomedical Signals and Systems (3)	Major Elective 2 (3)			12
	B	BME4102 Final Year Project (6)	BME2066 Professional Engineering Practice (3)			BME4101 Biomedical Instrumentation (3)				12
	S				Reserve for missed Elective courses / Reserve for missed courses					
( ) indicates number of credits								Total credits (minimum):		93/96[+]

[+] *up to 3 credit units of core courses have been waived for students admitted with Advanced Standing I from the B1 and B2 level courses upon admission based on the academic background of students. Prerequisites which are not part of the Major Requirement are waived for students admitted with Advanced Standing.*

[#] *Students will be pre-registered into one of the 3 courses based on their academic background if the course has not been waived.*

Note 1: Students are required to take MA1201 and BME2066 as College/School-specified Courses (CSpC). Students may also be required to take MA1200 as a prerequisite subject to the result of the placement test arranged by the MA department at the end of August before Year 1 Semester A.

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 2 depending on their overall study plan.

11 August 2022

Model Study Path for BENGEGU3 BME 2022 Catalogue Term - Advanced Standing Ia (Optional CES mode)
(for those who satisfy the pre-requisite for MA1201)

Yr	Sem	Major Requirements						University Requirements		CUs
1	A	PHY1201 General Physics I (3) or CHEM1300 Principles of General Chemistry (3) or CHEM1200 Discovery in Biology (3)#+	BME2029+ Electrical and Electronic Principles (3)	BME2105+ Introduction to Biomedical Engineering (3)	BME2036+ Engineering Computing (3)	MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		**15/18+**
	B	CS1302+ Introduction to Computer Programming (3)	BME2122+ Biological Thermofluids (3)	BME2103+ Medical Biotechnology in Imaging and Measurement (3)	BME2106+ Introduction to Cellular and Biomolecular Engineering (3)			English (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	**15/18+**
	S							Reserve for missed courses		
2	A	BME2102+ Introduction to Biomechanics (3)	BME2104+ Tissue Engineering (3)	BME3123 Materials for Biomedical Engineering (3)	BME4103 Bio-safety and Security (3)	MA2177+ Engineering Mathematics & Statistics (3)	BME3104 Robotic Technology in Healthcare (3)			**15/18+**
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	BME2121+ Artificial Intelligence in Biomedical Engineering (3)	BME2066 Professional Engineering Practice (3)	Major Elective 1 (3)			**15/18+**
	S								GE 1 (3)	**3**
3	A	BME4102 Final Year Project (3)	BME3121 Biomedical Signals and Systems (3)	CES FS4001 (4)		Major Elective 2 (3)				**13**
	B	BME4102 Final Year Project (6)	BME4101 Biomedical Instrumentation (3)	CES FS4001 (4)					GE 2 (3)	**16**
	S						Reserve for missed Elective courses / Reserve for missed courses			
( ) indicates number of credits								**Total credits (minimum):**		**101/104**

+ *Up to 3 credit units of core courses have been waived for students admitted with Advanced Standing I from the B1 and B2 level courses upon admission based on the academic background of students.*
Prerequisites which are not part of the Major Requirement are waived for students admitted with Advanced Standing.

Students will be pre-registered into one of the 3 courses based on their academic background if the course has not been waived.

Note 1: Students are required to take MA1201 and BME2066 as College/School-specified Courses (CSpC). Students may also be required to take MA1200 as a prerequisite subject to the result of the placement test arranged by the MA department at the end of August before Year 1 Semester A.

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 2 depending on their overall study plan.

11 August 2022

Model Study Path for BENGEGU3 BME 2022 Catalogue Term - Advanced Standing Ib (non-CES mode)
(for students who are required to complete MA1200)

Yr	Sem	Major Requirements						University Requirements		CUs
1	A	PHY1201 General Physics I (3) or CHEM1300 Principles of General Chemistry (3) or CHEM1200 Discovery in Biology (3)[#+]	BME2029[+] Electrical and Electronic Principles (3)	BME2105[+] Introduction to Biomedical Engineering (3)	BME2036[+] Engineering Computing (3)	Pre-requisite: MA1200 Calculus and Basic Linear Algebra I (3)		English (3)		15/18[+]
	B	CS1302[+] Introduction to Computer Programming (3)	BME2122[+] Biological Thermofluids (3)	BME2103[+] Medical Biotechnology in Imaging and Measurement (3)	BME2106[+] Introduction to Cellular and Biomolecular Engineering (3)	MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		15/18[+]
	S							Reserve for missed courses		
2	A	BME2102[+] Introduction to Biomechanics (3)	BME2104[+] Tissue Engineering (3)	BME3104 Robotic Technology in Healthcare (3)	BME3123 Materials for Biomedical Engineering (3)	MA2177[+] Engineering Mathematics & Statistics (3)	BME4103 Bio-safety and Security (3)			15/18[+]
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	BME2121[+] Artificial Intelligence in Biomedical Engineering (3)	BME2066 Professional Engineering Practice (3)		GE1501 Chinese Civilisation – History and Philosophy (3)		15/18[+]
	S	Reserve for IAS or taking some Elective courses available / Reserve for missed courses								
3	A	BME4102 Final Year Project (3)			BME3121 Biomedical Signals and Systems (3)	Major Elective 1 (3)		GE 1 (3)		12
	B	BME4102 Final Year Project (6)			BME4101 Biomedical Instrumentation (3)	Major Elective 2 (3)		GE 2 (3)		15
	S	Reserve for missed Elective courses / Reserve for missed courses								
( ) indicates number of credits								Total credits (minimum):		96/99

[+] *Up to 3 credit units of core courses have been waived for students admitted with Advanced Standing I from the B1 and B2 level courses upon admission based on the academic background of students.*
Prerequisites which are not part of the Major Requirement are waived for students admitted with Advanced Standing.

[#] *Students will be pre-registered into one of the 3 courses based on their academic background if the course has not been waived.*

Note 1: Students are required to take MA1201 and BME2066 as College/School-specified Courses (CSpC). Students may also be required to take MA1200 as a prerequisite subject to the result of the placement test arranged by the MA department at the end of August before Year 1 Semester A.

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 2 depending on their overall study plan.

11 August 2022

Model Study Path for BENGEGU3 BME 2022 Catalogue Term - Advanced Standing Ib (Optional CES mode)
(for students who are required to complete MA1200)

Yr	Sem	Major Requirements						University Requirements		CUs
1	**A**	PHY1201 General Physics I (3) or CHEM1300 Principles of General Chemistry (3) or CHEM1200 Discovery in Biology (3)[#+]	BME2029[+] Electrical and Electronic Principles (3)	BME2105[+] Introduction to Biomedical Engineering (3)	BME2036[+] Engineering Computing (3)	Pre-requisite: MA1200 Calculus and Basic Linear Algebra I (3)		English (3)		**15/18[+]**
	B	CS1302[+] Introduction to Computer Programming (3)	BME2122[+] Biological Thermofluids (3)	BME2103[+] Medical Biotechnology in Imaging and Measurement (3)	BME2106[+] Introduction to Cellular and Biomolecular Engineering (3)	MA1201 Calculus and Basic Linear Algebra II (3)		English (3)		**15/18[+]**
	S							Reserve for missed courses		
2	**A**	BME2102[+] Introduction to Biomechanics (3)	BME2104[+] Tissue Engineering (3)	BME3104 Robotic Technology in Healthcare (3)	BME3123 Materials for Biomedical Engineering (3)	MA2177[+] Engineering Mathematics & Statistics (3)	BME4103 Bio-safety and Security (3)			**15/18[+]**
	B	BME3102 Human Quantitative Physiology (3)	CS4465 Computational Biology and Bioinformatics (3)	BME3103 Bio-sensors and Bio-devices (3)	BME2121[+] Artificial Intelligence in Biomedical Engineering (3)	BME2066 Professional Engineering Practice (3)		GE1501 Chinese Civilisation – History and Philosophy (3)		**15/18[+]**
	S							GE 1 (3)	GE 2 (3)	**6**
3	**A**	BME4102 Final Year Project (3)		CES FS4001 (4)		BME3121 Biomedical Signals and Systems (3)	Major Elective 1 (3)			**13**
	B	BME4102 Final Year Project (6)		CES FS4001 (4)		BME4101 Biomedical Instrumentation (3)	Major Elective 2 (3)			**16**
	S	Reserve for missed Elective courses / Reserve for missed courses								
( ) indicates number of credits								**Total credits (minimum):**		**104/107**

[+] *Up to 3 credit units of core courses have been waived for students admitted with Advanced Standing I from the B1 and B2 level courses upon admission based on the academic background of students.*
Prerequisites which are not part of the Major Requirement are waived for students admitted with Advanced Standing.

[#] *Students will be pre-registered into one of the 3 courses based on their academic background if the course has not been waived.*

Note 1: Students are required to take MA1201 <u>and</u> BME2066 as College/School-specified Courses (CSpC). Students may also be required to take MA1200 as a prerequisite subject to the result of the placement test arranged by the MA department at the end of August before Year 1 Semester A.

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 2 depending on their overall study plan.

11 August 2022