1. Students in BME who have Level 2 or above in HKDSE Physics/Combined Science with Physics:

Year 1						
Semester 1 (16 credits OR 19 credits†) Semester 2 (16 credits + 1 training credit)						
BME11108 Biomedical Engineering in Society (2 credits)						
ABCT1700 Introduction to Chemistry (3 credits)	ABCT1741 General Chemistry I (3 credits)					
† Refer to the note at the bottom	† Refer to the note at the bottom					
ABCT2331 Human Biology for Biomedical Engineering I (3	ABCT2332 Human Biology for Biomedical Engineering II (3					
credits)	credits)					
AMA1110 Basic Mathematics I – Calculus, Probability, and	AMA1120 Basic Mathematics II – Calculus and Linear					
Statistics (3 credits)	Algebra (3 credits)					
AP10005 Physics I (3 credits)	AP10006 Physics II (3 credits)					
ENG1003 Freshman Seminar for Engineering (3 credits)	LCR II: English (3 credits)					
LCR I: English (3 credits)	IC2135 Material Processing and Technical Communication (1 training credit)					
Healthy Lifes	tyle (0 credits)					
Summer Term: IC2135 Material Processing at	nd Technical Communication (4 training credits)					
Ye	ar 2					
Semester 1 (16.5 credits)	Semester 2 (16.5 credits)					
BME21111 Biomedical Engineering Research and Design Studies I (3 credits)						
ELC3523 Scientific Writing for Biomedical Engineering Students (2 credits)						
AMA2511 Applied Mathematics I (2 credits)	AMA2512 Applied Mathematics II (2 credits)					
APSS1L01 Tomorrow's Leader (3 credits)	BME21119 Fundamentals of Biomechanics (3 credits)					
BME21120 Fundamentals of Biomedical Instrumentation I (3 credits)	BME31121 Fundamentals of Biomedical Instrumentation II (3 credits)					
ENG2002 Computer Programming (3 credits)	CAR I (3 credits) (with CR/CW) #					
LCR III: Chinese (3 credits)	CAR II (3 credits) #					
Ye	ar 3					
Semester 1 (16.5 credits)	Semester 2 (16.5 credits)					
BME31142 Biomedical Engineering Research and Design Studies II – Engineer for the Community (3 credits)						
BME31114 Biomedical Instrumentation and Sensors (3 credits)	BME31103 Applied Electrophysiology (3 credits)					
BME31116 Biosignal Processing (3 credits)	BME31134 Rehabilitation Engineering and Assistive Technolog (3 credits)					
BME31125 Biomechanics (3 credits)	BME Elective II (3 credits)					
BME Elective I (3 credits)	BME Elective III (3 credits)					
Free Elective (3 credits) #	CAR III (3 credits) (with ER/EW)#					
Summer Term: BME31210 Biomedical Engineering Industrial Internship (4 training credits)						
Year 4						
Semester 1 (11 credits) Semester 2 (12 credits)						
	ne Project (6 credits)					
BME Elective IV (3 credits)	BME41141 Medical Technology Management and Regulation (credits)					
BME Elective V (3 credits)	BME Elective VI (3 credits)					
CLC3241P Professional Communication in Chinese (2 credits)	CAR IV (3 credits) #					
	•					

Total Number of Credits: 121 Academic + 5 IC Training + 4 WIE Training

[†] Students who do not have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1700 Introduction to Chemistry (also highly recommended to take ABCT1741 General Chemistry I) and students who have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1741 General Chemistry I.

^{*}The suggested semesters for CAR subjects and Free Elective can be changed if it is allowed by Academic Advisor.

2. Students in BME who do not have Level 2 or above in HKDSE Physics/Combined Science with Physics:

Year 1						
Semester 1 (16 credits OR 19 credits†)	Semester 2 (16 credits + 1 training credit)					
BME11108 Biomedical Engineering in Society (2 credits)						
ABCT1700 Introduction to Chemistry (3 credits) † Refer to the note at the bottom	ABCT1741 General Chemistry I (3 credits) † Refer to the note at the bottom					
ABCT2331 Human Biology for Biomedical Engineering I (3 credits)	ABCT2332 Human Biology for Biomedical Engineering II (3 credits)					
AMA1110 Basic Mathematics I – Calculus, Probability, and Statistics (3 credits)	AMA1120 Basic Mathematics II – Calculus and Linear Algebra (3 credits)					
AP10001 Introduction to Physics (3 credits) ††	AP10006 Physics II (3 credits)					
ENG1003 Freshman Seminar for Engineering (3 credits)	LCR II: English (3 credits)					
LCR I: English (3 credits)	IC2135 Material Processing and Technical Communication (1 training credit)					
Healthy Lifest	yle (0 credits)					
Summer Term: IC2135 Material Processing an	d Technical Communication (4 training credits)					
Yea	or 2					
Semester 1 (19.5 credits)	Semester 2 (16.5 credits)					
BME21111 Biomedical Engineering Re	esearch and Design Studies I (3 credits)					
ELC3523 Scientific Writing for Biome	edical Engineering Students (2 credits)					
AMA2511 Applied Mathematics I (2 credits)	AMA2512 Applied Mathematics II (2 credits)					
AP10005 Physics I (3 credits)						
APSS1L01 Tomorrow's Leader (3 credits)	BME21119 Fundamentals of Biomechanics (3 credits)					
BME21120 Fundamentals of Biomedical Instrumentation I (3 credits)	BME31121 Fundamentals of Biomedical Instrumentation II (3 credits)					
ENG2002 Computer Programming (3 credits)	CAR I (3 credits) (with CR/CW) #					
LCR III: Chinese (3 credits)	CAR II (3 credits) #					
Yea	_					
Semester 1 (16.5 credits)	Semester 2 (16.5 credits)					
BME31142 Biomedical Engineering Research and Desi	gn Studies II – Engineer for the Community (3 credits)					
BME31114 Biomedical Instrumentation and Sensors (3 credits)	BME31103 Applied Electrophysiology (3 credits)					
BME31116 Biosignal Processing (3 credits)	BME31134 Rehabilitation Engineering and Assistive Technology (3 credits)					
BME31125 Biomechanics (3 credits)	BME Elective II (3 credits)					
BME Elective I (3 credits)	BME Elective III (3 credits)					
Free Elective (3 credits) #	CAR III (3 credits) (with ER/EW)#					
Summer Term: BME31210 Biomedical Engin						
Year 4						
Semester 1 (11 credits) Semester 2 (9 credits)						
BME41118 Capston						
BME Elective IV (3 credits)	BME41141 Medical Technology Management and Regulation (3 credits)					
BME Elective V (3 credits)	BME Elective VI (3 credits)					
CLC3241P Professional Communication in Chinese (2 credits)						

Total Number of Credits: 121 Academic + 5 IC Training + 4 WIE Training

[†] Students who do not have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1700 Introduction to Chemistry (also highly recommended to take ABCT1741 General Chemistry I) and students who have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1741 General Chemistry I.

^{††} AP10001 Introduction to Physics is a double-fulfillment subject of DSR and CAR D. This means students completing AP10001 do not need to take another CAR D subject.

[#]The suggested semesters for CAR subjects and Free Elective can be changed if it is allowed by Academic Advisor.

BME Electives Offering Pattern

Semester 1 (BME Electives Offered)			Semester 2 (BME Elective Offered)						
Subjects	22-23	23-24	24-25	25-26	Subjects	22-23	23-24	24-25	25-26
BME32115 Biosensors: Theories and Biomedical Applications	V	$\sqrt{}$	√	√	BME32140 Clinical Engineering	√	V		
BME42129 Neuroengineering	√	1	√	√	BME32105 Biomaterials Science and Engineering	1	V		
BME34145 AIDA for Health Care and Smart Aging		1	V	√	BME42113 Biomedical Imaging	V	1	1	1
BME44144 AIDA for Biosignal Processing and Medical Imaging			$\sqrt{}$	√	BME42154 Digital Design and Fabrication for Healthcare Services (Consecutive Sub: Sem 1 è Sem 2) *		√		√
BME42154 Digital Design and Fabrication for Healthcare Services (Consecutive Sub: Sem 1 è Sem 2) *		1		7	BME32138 Cellular Engineering	√	1	7	√
					BME34143 MedTech Innovation and Entrepreneurship		V	V	1

^{*} BME42154 to be offered in alternative years.

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1. Students in BME who have Level 2 or above in HKDSE Physics/Combined Science with Physics:

Yeal	Year 1					
Semester 1 (16 credits OR 19 credits†)	Semester 2 (16 credits + 1 training credit)					
BME11108 Biomedical Engineering in Society (2 credits)						
ABCT1700 Introduction to Chemistry (3 credits)	ABCT1741 General Chemistry I (3 credits)					
† Refer to the note at the bottom	† Refer to the note at the bottom					
ABCT2331 Human Biology for Biomedical Engineering I (3	ABCT2332 Human Biology for Biomedical Engineering					
credits)	II (3 credits)					
AMA1110 Basic Mathematics I – Calculus, Probability, and Statistics (3 credits)	AMA1120 Basic Mathematics II – Calculus and Linear Algebra (3 credits)					
AP10005 Physics I (3 credits)	AP10006 Physics II (3 credits)					
ENG1003 Freshman Seminar for Engineering (3 credits)	LCR II: English (3 credits)					
LCR I: English (3 credits)	IC2135 Material Processing and Technical Communication					
LCR 1. Eligiisii (5 ciedits)	(1 training credit)					
Healthy Lifesty	· •					
Summer Term: IC2135 Material Processing and						
Yea	· · ·					
Semester 1 (16.5 credits)	Semester 2 (16.5 credits)					
BME21111 Biomedical Engineering Re						
ELC3523 Scientific Writing for Biomed						
AMA2511 Applied Mathematics I (2 credits)	AMA2512 Applied Mathematics II (2 credits)					
APSS1L01 Tomorrow's Leader (3 credits)	BME21119 Fundamentals of Biomechanics (3 credits)					
BME21120 Fundamentals of Biomedical Instrumentation I (3	BME31121 Fundamentals of Biomedical Instrumentation II					
credits)	(3 credits)					
ENG2002 Computer Programming (3 credits)	CAR I (3 credits) (with CR/CW) #					
LCR III: Chinese (3 credits)	CAR II (3 credits) #					
Year 3						
Semester 1 (16.5 credits)	Semester 2 (16.5 credits)					
BME31142 Biomedical Engineering Research and Desig	n Studies II – Engineer for the Community (3 credits)					
BME31114 Biomedical Instrumentation and Sensors (3 credits)	BME31103 Applied Electrophysiology (3 credits)					
BME31116 Biosignal Processing (3 credits)	BME31134 Rehabilitation Engineering and Assistive Technology (3 credits)					
BME31125 Biomechanics (3 credits)	P&O Elective III (3 credits)					
	BME42124 Knee and Above-Knee Orthotics					
P&O Elective I (3 credits)	P&O Elective IV (3 credits)					
BME32131 Pedorthics, Foot and Ankle-Foot Orthotics	BME42135 Spinal Orthotics					
P&O Elective II (3 credits)	CAR III (3 credits) (with ER/EW) #					
BME32136 Upper Limb Orthotics						
Summer Term: BME31206 Biomedical En						
Yea						
Semester 1 (14 credits)	Semester 2 (12 credits)					
BME41118 Capstone Project (6 credits)						
P&O Elective V (3 credits)	BME41141 Medical Technology Management and					
BME32104 Below-Knee Prosthetics	Regulation (3 credits)					
CAR IV (3 credits)#	P&O Elective VI (3 credits)					
CL C2241D Duefossional Communication in China (2)	BME42101 Above-Knee Prosthetics					
CLC3241P Professional Communication in Chinese (2 credits)	P&O Elective VII (3 credits) PME42137 Upper Limb Prosthetics					
Free Elective (3 credits) *	BME42137 Upper Limb Prosthetics					
	Singaring Clinical Attachment II (A Jit-)					
Summer Term: BME41207 Biomedical Engineering Clinical Attachment II (4 credits)						

Total Number of Credits: 124 Academic + 5 IC Training + 8 WIE Training

[†] Students who do not have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1700 Introduction to Chemistry (also highly recommended to take ABCT1741 General Chemistry I) and students who have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1741 General Chemistry I.

[#]The suggested semesters for CAR subjects can be changed if it is allowed by Academic Advisor.

^{*} P&O students are recommended to take HSS2011 Human Anatomy (3 credits) (in Year 3/4 semester 1) or BME42154 Digital Design and Fabrication for Healthcare Services (3 credits) in Year 4 as a Free Elective.

2. Students in BME who do not have Level 2 or above in HKDSE Physics/Combined Science with Physics:

Year 1							
Semester 1 (16 credits OR 19 credits†) Semester 2 (16 credits + 1 training credit)							
BME11108 Biomedical Engineering in Society (2 credits)							
ABCT1700 Introduction to Chemistry (3 credits)	ABCT1741 General Chemistry I (3 credits)						
† Refer to the note at the bottom	† Refer to the note at the bottom						
ABCT2331 Human Biology for Biomedical Engineering I (3	ABCT2332 Human Biology for Biomedical Engineering II						
credits)	(3 credits)						
AMA1110 Basic Mathematics I – Calculus, Probability, and	AMA1120 Basic Mathematics II – Calculus and Linear						
Statistics (3 credits)	Algebra (3 credits)						
AP10001 Introduction to Physics (3 credits) ††	AP10006 Physics II (3 credits)						
ENG1003 Freshman Seminar for Engineering (3 credits)	LCR II: English (3 credits)						
LCR I: English (3 credits)	IC2135 Material Processing and Technical Communication (1 training credit)						
Healthy Lifesty							
Summer Term: IC2135 Material Processing and							
Year							
Semester 1 (19.5 credits)	Semester 2 (16.5 credits)						
BME21111 Biomedical Engineering Res							
ELC3523 Scientific Writing for Biomed							
AMA2511 Applied Mathematics I (2 credits)	AMA2512 Applied Mathematics II (2 credits)						
	AMA2312 Applied Mathematics II (2 cledits)						
AP10005 Physics I (3 credits)	DISCOULTED IN CO. IN CO						
APSS1L01 Tomorrow's Leader (3 credits)	BME21119 Fundamentals of Biomechanics (3 credits)						
BME21120 Fundamentals of Biomedical Instrumentation I (3 credits)	BME31121 Fundamentals of Biomedical Instrumentation II (3 credits)						
ENG2002 Computer Programming (3 credits)	CAR I (3 credits) (with CR/CW) #						
LCR III: Chinese (3 credits) CAR II (3 credits) **							
Year 3							
Semester 1 (16.5 credits) Semester 2 (16.5 credits)							
BME31142 Biomedical Engineering Research and Design Studies II – Engineer for the Community (3 credits)							
BME31114 Biomedical Instrumentation and Sensors (3 credits)	BME31103 Applied Electrophysiology (3 credits)						
BME31116 Biosignal Processing (3 credits)	BME31134 Rehabilitation Engineering and Assistive Technology (3 credits)						
BME31125 Biomechanics (3 credits)	P&O Elective III (3 credits)						
	BME42124 Knee and Above-Knee Orthotics						
P&O Elective I (3 credits)	P&O Elective IV (3 credits)						
BME32131 Pedorthics, Foot and Ankle-Foot Orthotics	BME42135 Spinal Orthotics						
P&O Elective II (3 credits)	CAR III (3 credits) (with ER/EW)#						
BME32136 Upper Limb Orthotics							
Summer Term: BME31206 Biomedical En	gineering Clinical Attachment I (4 credits)						
Year 4							
Semester 1 (11 credits)	Semester 2 (12 credits)						
BME41118 Capstone Project (6 credits)							
P&O Elective V (3 credits) BME32104 Below-Knee Prosthetics	BME41141 Medical Technology Management and Regulation (3 credits)						
CLC3241P Professional Communication	P&O Elective VI (3 credits)						
in Chinese (2 credits)	BME42101 Above-Knee Prosthetics						
Free Elective (3 credits) *	P&O Elective VII (3 credits)						
The License (3 cions)	BME42137 Upper Limb Prosthetics						
Summer Term: BME41207 Biomedical Engineering Clinical Attachment II (4 credits)							

Total Number of Credits: 124 Academic + 5 IC Training + 8 WIE Training

[†] Students who do not have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1700 Introduction to Chemistry (also highly recommended to take ABCT1741 General Chemistry I) and students who have Level 3 or above in HKDSE Chemistry/Combined Science with Chemistry should take ABCT1741 General Chemistry I.

 $[\]dagger\dagger$ AP10001 Introduction to Physics is a double-fulfillment subject of DSR and CAR D. This means students completing AP10001 do not need to take another CAR D subject.

^{*}The suggested semesters for CAR subjects can be changed if it is allowed by Academic Advisor.

^{*} P&O students are recommended to take HSS2011 Human Anatomy (3 credits) (in Year 3/4 semester 1) or BME42154 Digital Design and Fabrication for

Healthcare Services (3 credits) in Year 4 as a Free Elective.

P&O Electives Offering Pattern*

Semester 1 (P&O Electives Offered)			Semester 2 (P&O Electives Offered)						
Subjects	22-23	23-24	24-25	25-26	Subjects	22-23	23-24	24-25	25-26
BME32131 Pedorthics, Foot and Ankle-Foot Orthotics (3 credits)	√				BME42124 Knee and Above-Knee Orthotics (3 credits)	√			
BME32136 Upper Limb Orthotics (3 credits)	$\sqrt{}$				BME42135 Spinal Orthotics (3 credits)	$\sqrt{}$			
BME32104 Below-Knee Prosthetics (3 credits)		$\sqrt{}$		$\sqrt{}$	BME42101 Above-Knee Prosthetics (3 credits)		V		$\sqrt{}$
					BME42137 Upper Limb Prosthetics (3 credits)		√		$\sqrt{}$

^{*}P&O subjects to be offered in alternative years.

 $(Aug\ 2022)$

Senior Year Curriculum[®] (old pattern)

Year 3							
Semester 1 (21.5 credits)	Semester 2 (18.5 credits + 1 training credit)						
BME11108 Biomedical Engineering in Society (2 credits)							
BME21111 Biomedical Engineering Research and Design Studies I (3 credits)							
ELC3523 Scientific Writing for Biomedical Engineering Students (2 credits)							
ABCT2331 Human Biology for Biomedical Engineering I	ABCT2332 Human Biology for Biomedical Engineering II						
(3 credits)	(3 credits)						
BME31114 Biomedical Instrumentation and Sensors (3 credits)	BME31103 Applied Electrophysiology (3 credits)						
BME31116 Biosignal Processing (3 credits)	BME31134 Rehabilitation Engineering and Assistive Technology (3 credits)						
BME31125 Biomechanics (3 credits)	BME Elective III (3 credits) *						
BME Elective I (3 credits) *	BME Elective IV (3 credits) *						
BME32140 Clinical Engineering (3 credits)	BME32105 Biomaterials Science and Engineering (3 credits)						
BME Elective II (3 credits) *	BME21301/IC2135 Material Processing and Technical Communication (1 training credit)						
Summer Term: BME21301/IC2135 Material Processing and Technical Communication (4 training credits)							
Yea	or 4						
Semester 1 (15.5 credits)	Semester 2 (13.5 credits)						
BME31142 Biomedical Engineering Research and Design Studies II - Engineer for the Community (3 credits)							
BME41118 Capstone Project (6 credits)							
BME Elective V (3 credits) *	BME41141 Medical Technology Management and Regulation (3 credits)						
CLC3241P Professional Communication in Chinese	BME Elective VI (3 credits) *						
(2 credits)							
CAR I (3 credits) (with ER/EW) [#]	CAR II (3 credits) (with CR/CW)#						
Free-elective (3 credits)							
Summer Term: BME31210 Biomedical Engineering Industrial Internship (4 credits)							

Total Number of Credits = 69 Academic + 5 IC Training + 4 WIE Training

[®] The study pattern of senior year students is for reference only as it may vary from student to student according to the entry credit transfer granted.

^{*}The suggested semesters for CAR subjects and Free Elective can be changed if it is allowed by Academic Advisor.

^{*}Students need to register for BME Elective subjects by themselves. If students want to take subjects in other PolyU departments to be counted as BME electives, please strictly follow the inductions set by the Department.