

B.Eng. (Bioengineering)							
Suggested Study Plan for AY2020-2021 intake (CNYang)							
<u>with Professional Internship</u>							
Year 1 Semester 1				Year 1 Semester 2			
Course		Type	AU	Course		Type	AU
CB1102	Introduction to Chemical and Biomedical Engineering	C	1	CB1105	Material Science	C	3
CB2106	Introduction to Multidisciplinary Engineering	C	2	CB1131	Engineering Fundamentals 1, Biomolecular Engineering	C	3
CY1101	Principles of Modern Chemistry	C	3	EG0001	Engineers & Society	GC	3
CY1001	Introductory Biology	C	3	CY1007	Climate Change	C	3
CY1601	Mathematics 1	C	4	CY1307	Relativity and Quantum Physics	C	3
CY1500	Introductory Research Methodology	C	3	CY1400	CN Yang Scholars Programme Research Experience	C	3
CY1308	Physics	C	3	CY1602	Mathematics II	C	4
GC0001	Sustainability: Seeing Thru The Haze	GC	1		Engineering Fundamentals 2 +	C	3
HW0001	Introduction to Academic Communication *						
			20				29
*For students who have not passed or been exempted from the Qualifying English Test at the time of admission.							
Year 2 Semester 1				Year 2 Semester 2			
Course		Type	AU	Course		Type	AU
BG2211	Introduction to Computational Thinking	C	3	BG2104	Electronics for Biomedical Engineering	C	3
BG2131	Biomaterials	C	3	BG2209	Mechanics for Bioengineers	C	3
BG2142	Biological Thermodynamics	C	3	BG2110	Bioelectricity	C	3
BG1109	Anatomy and Physiology	C	3	BG2802	Bioengineering Lab 2B	C	1
BG2801	Bioengineering Lab 2A	C	1	CB0494	Introduction to Data Science and Artificial Intelligence	GC	3
CY0002	Ethics	GC	3	CY0001	Writing Across The Disciplines	GC	3
CY2001	Research Attachment 1	C	4		Free elective 1	UE	3
ML0003	Kickstart your Career Success	GC	1				
			21				19
Year 3 Semester 1				Year 3 Semester 2			
Course		Type	AU	Course		Type	AU
BG2112	Cardiovascular Engineering	C	4	BG4211	CNYSPP Overseas Final Year Project	C	8
BG3102	Control in Biosystems	C	3				
BG3103	Signal Processing in Biosystems	C	3				
BG3104	Biomedical Imaging	C	3				
BG3105	Biomedical Instrumentation	C	3				
BG3801	Bioengineering Lab 3	C	1				
CY0006	Enterprise, Innovation and Leadership	GC	3				
			20				13
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course		Type	AU
BG4102	Medical Device Design	C	4		Free elective 3	UE	3
BG4103	Biomedical Project Design & Management	C	4				
	BIE PE 1	P	3				
	BIE PE 2	P	3				
	Free elective 2	UE	3				
			17				3
							142
					Total (AU)		