## B.Eng (Hons) in Chemical and Biomolecular Engineering CNYang Scholars Programme

AY2024 - 2025 Intake onwards (CBE CNYSP)

		Number of Academic Units (AU)							
		Major Requirement			Interdi	isciplinary	Broadening		
Programme	Year of Study					and			
		School	Core	Major PE	Common Core (CC)	Foundational Core (FC)	Deepening	Total	
		Core (C)		(MPE)			Electives		
			(0)				(BDE)		
Chemical & Biomolecular Engineering (CNYang)	1	12	27		5			44	
	2	26	10		8			44	
	3	25				5		30	
	4	8		6		3	3	20	
	Total	71	37	6	13	8	3	138	

Category			AU	Total AU
Interdisciplinary Collaborative	CC0002 N CC0005 F CC0006 S SP0061 S ML0004	Core (University-level) Navigating the Digital World Healthy Living & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career and Entrepreneurial Development for the Yorld	2 3 3 3 2	13
Core (ICC)				
	CB0494 I Intelligen	onal Core (College-level) ntroduction to Data Science and Artificial nce Professional Attachment	3 5	8
	CBE Core	Engineers In Society Introduction to Chemical and Biomedical	2	
	CB1102	Engineering	1	
	CB1103	Organic Chemistry For Engineers	3	
Major	CB1131	Introduction to Biomolecular Engineering	3	27
Requirement	CH1104	Materials & Energy Balance	3	27
	CH2010	Engineering Statistics	3	
	CH2103	Fluid Systems	3	
	CH2107	Introduction to Computational Thinking	3	
	CH2108	Thermodynamics	3	
	CH2112	Chemical Reaction Engineering	3	

Гotal				138
n saacining and	Бесреппп	B 1.000.100 (DDL)		
Broadening and	Deenenin	g Electives (BDE)		3
	CBE Majo	or Prescribed Electives (MPE)		6
	CY2003	Research Attachment 3	4	
	CY2001	Research Attachment 1	4	
	CY1602	Mathematics II	4	
	CY1601	Mathematics I	4	
	CY1500	Introduction to Research	2	
	CY1308	Physics	3	
	CY1101	Molecule	4	
	CY1001	Cell Climate Change	3 3	
	CY1001	Ethics	3	
	CY0001	Writing Across the Disciplines	3	
	CNYSP Co		_	
nequirement				
Requirement	CH4801	Final Year Design Project	8	01
Major	CH4211	CNYSP Overseas Final Year Project	8	81
	CH3802	5	3	
		Chemical & Biomolecular Engineering Laboratory		
	CH3140	Unit Operations B	3	
	CH3121	Chemical, Biological & Plant Safety	2	
	CH3111	Process Control and Dynamics	3	
	CH3109	Decision Tools for Business & Engineering	3	
	CH3104	Biochemical Engineering	3	
	CH2802	2B	2	
		Chemical & Biomolecular Engineering Laboratory		
	CH2151	Unit Operations A	3	
		Chemical Thermodynamics	3	
	CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	

Suggeste	ons) in Chemical and Biomolecular Eng d Study Plan for AY2024-2025 intake ssional Attachment (CBE CNYSP)	illeerilig '	Old Lang S	cilolais Fiogra	illille		
Year 1 Semester 1 Course		Туре	AU	Year 1 Semester 2 Course		Type	А
CB1102	Introduction to Chemical and Biomedical Engineering	С	1	CB1103	Organic Chemistry For Engineers	С	
CB1131	Introduction to Biomolecular	С	3	CH1104	Materials & Energy Balance	С	
CY1001	Engineering Cell	С	3	EG1001	Engineers in Society	С	
CY1101	Molecule	Č	4	CY1007	Climate Change	C	
CY1308	Physics	С	3	CY1602	Mathematics II	С	
CY1500	Introduction to Research	С	2	CC0005	Healthy Living & Wellbeing	CC	
CY1601 CC0002	Mathematics 1	С	4				
CC0002	Navigating the Digital World	CC	2	Year 1 St	pecial Term		
					Possarch Attachment 2 (Making		
				CY2003	and Tinkering)		
				_	Overseas Learning Trip	_	
			22				
							_
Year 2 Se	mester 1			Year 2 Se	emester 2		
CU2102	Fluid Systems	Type	<u>AU</u> 3	CHO112	Chemical Basetian Engineering	Type	
CH2103	Fluid Systems	C C	-	CH2112	Chemical Reaction Engineering Heat & Mass Transfer in Chemical	С	
CH2107	CH2107 Introduction to Computational Thinking		3	CH2114	and Biological Systems	С	3
CH2108	Thermodynamics	С	3	CH2123	Chemical Thermodynamics	С	
CH2010	Engineering Statistics	C	3	CH2151	Unit Operations A	C	
CY0001	Writing Across The Disciplines	С	3	CH2802	Chemical & Biomolecular	С	
CC0006	Sustainability: Society, Economy & Environment	СС	3	CY0002	Engineering Laboratory 2B  Ethics	С	
ML0004	Career and Entrepreneurial	СС	2	CY2001	Research Attachment 1	С	
	Development for the Future World	00	۷	SP0061	Science & Technology for Humanity	СС	
			20				
							-
Year 3 Semester 1 Course		Туре	AU	Year 3 Se Course	emester 2	Туре	A
	Biochemical Engineering	С	3	CH4211	CNYSP Overseas Final Year	С	
	Decision Tools for Business &	-	-		Project	-	
CH3109	Engineering	С	3				
CH3111	Process Control and Dynamics	С	3	Year 3 Sr	pecial Term		
CH3121	Chemical, Biological & Plant Safety	С	2	CH3910	Professional Attachment	FC	
CH3140	Unit Operations B	С	3				
CH3802	Chemical & Biomolecular Engineering Laboratory 5	С	3				
	Laboratory 5						
			17				
Year 4 Semester 1		_		Year 4 Semester 2		_	
Course		Туре	AU	Course		Туре	
CH4801	Final Year Design Project	С	4	CH4801	Final Year Design Project	С	
	CBE PE1	MPE	3	CB0494	Introduction to Data Science and Artificial Intelligence	FC	
	BDE 1	BDE	3		CBE PE2	MPE	
			10				
			10		Total (AU)		1