CN Yang Scholars Programme (CBE)

AY2022 - 2023 Intake onwards

		Number of Academic Units (AU)							
		Major Requirement			Interdi	isciplinary	Broadening		
Drogrammo	Year of Study					and			
Programme		School	CNYang	Major PE	Common	Foundational	Deepening	Total	
		Core (C)	Core (C)	(MPE)	Core (CC)	Core (FC)	Electives		
		(0)	(6)		(66)	(. 5)	(BDE)		
Chemical &	1	12	27		5			44	
Biomolecular	2	26	10		8			44	
Engineering	3	25				5		30	
(CNYang)	4	8		6		3	3	20	
(Civialig)	Total	71	37	6	13	8	3	138	

Category			AU	Total AU
Interdisciplinary Collaborative Core (ICC)	CC0002 N CC0005 H CC0006 S CC0007 S	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
	Form dot:	anal Cara (Callaga Iaval)		T
	CB0494 I	onal Core (College-level) ntroduction to Data Science and Artificial Professional Attachment	3 5	8
	CDE Com			1
	EG1001	Engineers In Society	2	
	CB1102 CB1103	Engineering Organic Chemistry For Engineers	_	
	CB1131	Introduction to Biomolecular Engineering	1 3 3	
Major	CH1104	Materials & Energy Balance	3	
Requirement	CH2010	Engineering Statistics	3	30
	CH2103	Fluid Systems	3	
	CH2107	Introduction to Computational Thinking	3	
	CH2108	Thermodynamics	3	
	CH2112	Chemical Reaction Engineering	3	
	CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	

Total				138
Broadening and	Deepenin	g Electives (BDE)		3
	LCDF INIA)	or Frescribed Liectives (WIFE)		U
	CRE Maid	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	
	CY1007	Living with Climate Change	3	
	CY1001	Cell	3	
	CY0002	Ethics	3	
	CY0001	Writing Across the Disciplines	3	
Requirement	CNYSP C	ore		
Major				78
D. 4 - 1	CH4801	Final Year Design Project	8	70
	CH4211	CNYSP Overseas Final Year Project	8	
	CH3802	5	3	
		Chemical & Biomolecular Engineering Laboratory		
	CH3140	Unit Operations B	3	
	0113121	Chemical, biological & Flant Surety	-	
	CH3111	Chemical, Biological & Plant Safety	2	
		Decision Tools for Business & Engineering Process Control and Dynamics	3	
	CH3104 CH3109	Biochemical Engineering	3 3	
	CH2802	2B Ricchemical Engineering	2	
	CHOOS	Chemical & Biomolecular Engineering Laboratory	2	
	CH2151	Unit Operations A	3	
		Chemical Thermodynamics	3	

	d Study Plan for AY2022-2023 intake (Cessional Attachment	NYang)					
Year 1 Se				Year 1 Se	emester 2		
Course		Type	AU	Course		Type	Α
CB1102	Introduction to Chemical and Biomedical Engineering	С	1	CB1103	Organic Chemistry For Engineers	С	;
CB1131	Introduction to Biomolecular Engineering	С	3	CH1104	Materials & Energy Balance	С	:
CY1001	Cell	С	3	EG1001	Engineers in Society	С	
CY1101	Molecule	С	4	CY1007	Living with Climate Change	С	
CY1308	Physics	С	3	CY1602	Mathematics II	С	
CY1500 CY1601	Introduction to Research Mathematics 1	C C	2 4	CC0005	Healthy Living & Wellbeing	CC	
CC0002	Navigating the Digital World	CC	2				
				Year 1 Sp	pecial Term		
				CY2003	Research Attachment 3 (Making		
				_	and Tinkering) Overseas Learning Trip	_	
					overseas zeaming mp		
			22				2
	mester 1	_			emester 2	_	
Course CH2103	Fluid Systems	Type C	AU 3	Course CH2112	Chemical Reaction Engineering	Type C	
	•				Heat & Mass Transfer in Chemical	С	
CH2107	Introduction to Computational Thinking	С	3	CH2114	and Biological Systems		
CH2108	Thermodynamics	С	3	CH2123	Chemical Thermodynamics	С	
CH2010	Engineering Statistics	С	3	CH2151	Unit Operations A Chemical & Biomolecular	С	
CY0002	Ethics	С	3	CH2802	Engineering Laboratory 2B	С	
CC0006	Sustainability: Society, Economy & Environment	CC	3	CY0001	Writing Across The Disciplines	С	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	CY2001	Research Attachment 1	С	
				CC0007	Science & Technology for Humanity	CC	
			20				2
Year 3 Se	mester 1			Year 3 Se	emester 2		
Course	mester i	Туре	AU	Course	incotor 2	Туре	A
CH3104	Biochemical Engineering	С	3	CH4211	CNYSP Overseas Final Year	С	
0110100	Decision Tools for Business &	•			Froject		
CH3109	Engineering	С	3				
CH3111	Process Control and Dynamics	С	3	Year 3 Sp	CNYSP Overseas Final Year Project 3 Special Term		
CH3121 CH3140	Chemical, Biological & Plant Safety Unit Operations B	C C	2 3	CH3885	Professional Attachment	FC	
	Chemical & Biomolecular Engineering						
CH3802	Laboratory 5	С	3				
			17				1
rear 4 Se	mester 1			Year 4 Se	emester 2		
Course		Туре	AU	Course		Туре	Α
CH4801	Final Year Design Project	С	4	CH4801	Final Year Design Project	С	
	CBE PE1	MPE	3	CB0494	Introduction to Data Science and	FC	
	BDE 1	BDE	3		Artificial Intelligence CBE PE2	MPE	
			10		Total (AU)		1