

**CURRICULUM FOR BACHELOR OF SCIENCE (CHEMISTRY AND BIOLOGICAL CHEMISTRY)
WITH SECOND MAJOR IN SUSTAINABILITY
CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)- AY2025 ONWARDS**

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	CNYSP- Core	MPE	CC	Professional Series	Care, Serve & Learn	BDE	Total AU
1	7	27 [3]	0	2	0	0	6	42 [3]
2	16	6	0	8	3	3	13	49
3	18	0	12	0	1	0	12	43
4	12	0	0	0	10	0	0	22
Total	53	33 [3]	12	10	14	3	31	156 [3]

[] AU of courses that could be used to fulfil Core requirement and second major requirement concurrently

YEAR 1 SEMESTER 1					
Course Code	Course Title	Type	AU	Remarks	
CY1001	Cell	CNYSP-Core	3		
CY1101	Molecule	CNYSP-Core	4		
CY1308	Physics	CNYSP-Core	3		
CY1500	Introduction to Research	CNYSP-Core	2		
CY1601	Mathematics I	CNYSP-Core	4		
CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	C	1	New Core wef AY25	
CC0015	Health & Wellbeing	CC	2		
			19		

YEAR 1 SEMESTER 2					
Course Code	Course Title	Type	AU	Remarks	
CY1007^	Climate Change	CNYSP-Core	3	Replaces Planet Core	
CY1602	Mathematics II	CNYSP-Core	4		
CM2031	Organic & Bioorganic Chemistry	C	3	CY1101	
CM2041	Physical & Biophysical Chemistry 1	C	3	CY1101	
	Second Major Compulsory Course 2	BDE	3		
	SN Elective 1	BDE	3	List of electives to choose from	
			19		

YEAR 1 SPECIAL TERM					
Course Code	Course Title	Type	AU	Remarks	
CY2003	Research Attachment 3 (Making and Tinkering)	CNYSP-Core	4		
	Overseas Learning Trip				
			4		

YEAR 2 SEMESTER 1					
Course Code	Course Title	Type	AU	Remarks	
CY0001	Writing Across The Disciplines	CNYSP-Core	3		
CH5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2	
CM2011	Analytical & Bioanalytical Chemistry	C	3	CY1101	
CM2021	Inorganic & Bioinorganic Chemistry	C	3	CY1101	
CM2061	Chemistry & Biological Chemistry Lab 1	C	3	CY1101	
PS0001	Introduction to Computational Thinking	C	3		
XXXXXX	Tech-For-Good	CSL	3		
CC0006	Sustainability: Society, Economy & Environment	CC	3		
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2		
	Second Major Compulsory Course 3	BDE	3		
			26		

YEAR 2 SEMESTER 2					
Course Code	Course Title	Type	AU	Remarks	
CY0002	Ethics	CNYSP-Core	3		
CH5915	Undergraduate Research	BDE	4	2-semester long, course registered only in Sem 2	
CM2062	Chemistry & Biological Chemistry Lab 2	C	3	CY1101	
CB2002	Introduction to Chemical and Biological Safety	C	1	New Core wef AY25	
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	PS0001	
SP0061	Science & Technology for Humanity	CC	3		
	Second Major Compulsory Course 4	BDE	3		
	Second Major Compulsory Course 5	BDE	3		
			23		

YEAR 3 SEMESTER 1					
Course Code	Course Title	Type	AU	Remarks	

CM3xxx	Chem-Core	C	3	CM3011, CM3021, CM3031, CM3041 are offered in both semesters CM2062 List of electives to choose from
CM3xxx	Chem-Core	C	3	
CM3062	Chemistry & Biological Chemistry Lab 4	C	3	
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
	SN Elective 2	BDE	3	
	SN Elective 3	BDE	3	
MLXXX	Profession Preparation	PS	1	
			22	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Remarks
CM3xxx	Chem-Core	C	3	CM3011, CM3021, CM3031, CM3041 are offered in both semesters CM2061 List of electives to choose from
CM3xxx	Chem-Core	C	3	
CM3061	Chemistry & Biological Chemistry Lab 4	C	3	
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
	SN Elective 4	BDE	3	
	Second Major Interdisciplinary Project	BDE	3	
			21	

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Remarks
CM4111	Overseas Final Year Project	C	12	
			12	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Remarks
CM4081	Professional Internship	PS	10	
			10	
Total AUs required for Graduation:			156	

^a These courses are double-counted towards both CHEM as well as the Second Major in Sustainability.

Compulsory Courses and Electives for Second Major in Sustainability

https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00