

**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	10	0	8	3	3	9	49
3	18	0	12	0	1	0	12	43
4	12	0	0	0	10	0	0	22
<b>Total</b>	<b>53</b>	<b>37 [3]</b>	<b>12</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>27</b>	<b>156 [3]</b>

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	
			<b>19</b>	

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
			<b>19</b>	

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

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Remarks
CY0001	Writing Across The Disciplines	CNYSP-Core	3	
CY2001	Research Attachment 1	CNYSP-Core	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	
			<b>26</b>	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
CY0002	Ethics	CNYSP-Core	3	
CY2001	Research Attachment 1	CNYSP-Core	4	
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	
			<b>23</b>	

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
CM3xxx	Chem-Core	C	3	
CM3062	Chemistry & Biological Chemistry Lab 4	C	3	CM2062
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
	SN Elective 2	BDE	3	<a href="#">List of electives to choose from</a>
	SN Elective 3	BDE	3	
MLXXX	Profession Preparation	PS	1	
			<b>22</b>	

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
CM3xxx	Chem-Core	C	3	
CM3061	Chemistry & Biological Chemistry Lab 4	C	3	CM2061
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
	SN Elective 4	BDE	3	<a href="#">List of electives to choose from</a>
	Second Major Interdisciplinary Project	BDE	3	
			<b>21</b>	

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Remarks
CM4111	Overseas Final Year Project	C	12	
			<b>12</b>	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
CM4081	Professional Internship	PS	10	
			<b>10</b>	
Total AUs required for Graduation:			<b>156</b>	

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

<b>Compulsory Courses and Electives for Second Major in Sustainability</b>				
<a href="https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00">https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00</a>				