AY2024-25 CURRICULUM FOR CHEMISTRY AND BIOLOGICAL CHEMISTRY WITH CN YANG SCHOLARS PROGRAMME_Internship SECOND MAJOR IN SUSTAINABILITY (CHSN) (FIRST YEAR ADMISSION)

Last Updated:

						Last Updated :	10-Oct-23		
SUMMARY OF ACADEMIC UNIT REQUIREMENT									
Year of Study	School Core	CNYSP-Core	MPE	CC	FC	BDE	Total AU		
1	6	27	0	5	0	6	44		
2	15	10	0	8	3	9	45		
3	18	0	12	0	0	12	42		
4	12	0	0	0	10	0	22		
Total	51	37	12	13	13	27	153		

	YEAR 1 SEMESTER 1					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks		
CY1001	Cell	CNY-Core	3			
CY1101	Molecule	CNY-Core	4			
CY1308	Physics	CNY-Core	3	CNYSP Courses		
CY1500	Introduction to Research	CNY-Core	2			
CY1601	Mathematics I	CNY-Core	4			
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3			
CC0002	Navigating the Digital World	CC	2			
			21			

	YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet Core		
CY1602	Mathematics II	CNY-Core	4	CNYSP Course		
CM2031	Organic & Bioorganic Chemistry	С	3	Pre-req (CY1101 Molecule) fulfilled at the end of Y1S1		
CM2041	Physical & Biophysical Chemistry 1	С	3	CY1101		
	Second Major Compulsory Course 2	BDE	3			
	SN Elective 1	BDE	3	List of electives to choose from		
			19			

	YEAR 1 SPECIAL SEMESTER						
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks			
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course			
	Overseas Learning Trip						
			4				

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course		
CM2011	Analytical & Bioanalytical Chemistry	С	3	CY1101		
CM2021	Inorganic & Bioinorganic Chemistry	С	3	CY1101		
CM2061	Chemistry & Biological Chemistry Lab 1	С	3	CY1101		
PS0001	Introduction to Computational Thinking	С	3			
CC0006	Sustainability: Society, Economy & Environment	CC	3			
ML0004	Career and Entrepreneurial Development for the Future World	CC	2			
	Second Major Compulsory Course 3	BDE	3			
			23			

	YEAR 2 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
CY0002	Ethics	CNY-Core	3	CNYSP Course
CM2062	Chemistry & Biological Chemistry Lab 2	С	3	CY1101
PS0002	Introduction to Data Science and Artificial Intelligence	FC	3	PS0001
SP0061	Science & Technology for Humanity	CC	3	
	Second Major Compulsory Course 4	BDE	3	
	Second Major Compulsory Course 5	BDE	3	
			22	

	YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CM3011	Chemical Spectroscopy & Applications	С	3	CM2021 & CM2031		
CM3041	Physical & Biophysical Chemistry 2	С	3	CM2041		
CM3062	Chemistry & Biological Chemistry Lab 4	С	3	CM2062		
CM4XXX	School Major PE	MPE	3			
CM4XXX	School Major PE	MPE	3			
	SN Elective 2	BDE	3	List of electives to choose from		
	SN Elective 3	BDE	3			
			21			

YEAR 3 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CM3021	Organometallic Chemistry	С	3	CM2021	
CM3031	Organic Reaction Mechanism & Synthesis	С	3	CM2031	
CM3061	Chemistry & Biological Chemistry Lab 3	С	3	CM2061	
CM4XXX	School Major PE	MPE	3		
CM4XXX	School Major PE	MPE	3		
	SN Elective 4	BDE	3	List of electives to choose from	
	Second Major Interdisciplinary Project	BDE	3		
			21		

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CM4111	Overseas Final Year Project	С	12	CNYSP Course	
			12		

YEAR 4 SEMESTER 2						
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks		
CM4081	Professional Internship	FC	10			
			10			
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Total AU for Graduation : 153

^ 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