CURRICULUM FOR BACHELOR OF SCIENCE (MATHEMATICAL SCIENCES)
WITH SECOND MAJOR IN SUSTAINABILITY
CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2025 Intake Onwards

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	**Core**	**CNYSP-Core**	**MPE**	**CC**	**Professional Series**	**Care, Serve & Learn**	**BDE**	**Total AU**
1	13	27 [3]	0	2	0	0	0	**42 [3]**
2	12	6	0	8	3	3	16	**48**
3	0	0	19	0	1	0	15	**35**
4	12	0	0	0	10	0	0	**22**
Total	**37**	**33 [3]**	**19**	**10**	**14**	**3**	**31**	**147 [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	
PS0001	Introduction to Computational Thinking	C	3	
			19	

YEAR 1 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Remarks**
CY1007^	Climate Change	CNYSP-Core	3	**Double-counted as Planet Core**
CY1602	Mathematics II	CNYSP-Core	4	
MH1301	Discrete Mathematics	C	3	
MH1403	Algorithms and Computing	C	3	PS0001
MH3100	Real Analysis I	C	4	CY1601
CC0015	Health & Wellbeing	CC	2	
			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	
PS5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
MH1300	Foundations of Mathematics	C	4	
MH2500	Probability and Introduction to Statistics	C	4	
	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 2	BDE	3	
	Second Major Compulsory Course 3	BDE	3	
			25	

YEAR 2 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Remarks**
CY0002	Ethics	CNYSP-Core	3	
PS5915	Undergraduate Research	BDE	4	2-semester long, course registered only in Sem 2

MH3110	Ordinary Differential Equations	C	4	CY1602
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
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**
XXXXXX	School Major PE	MPE	4	
XXXXXX	School Major PE	MPE	4	
XXXXXX	School Major PE	MPE	4	
	SN Elective 1	BDE	3	List of electives to choose from
	SN Elective 2	BDE	3	
MLXXXX	Professional Preparation	PS	1	
			19	

YEAR 3 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Remarks**
XXXXXX	School Major PE	MPE	3	
XXXXXX	School Major PE	MPE	4	
	SN Elective 3	BDE	3	List of electives to choose from
	SN Elective 4	BDE	3	
	Second Major Interdisciplinary Project	BDE	3	
			16	

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1				
Course Code	**Course Title**	**Type**	**AU**	**Remarks**
MH4111	Overseas Final Year Project	C	12	
			12	

YEAR 4 SEMESTER 2				
Course Code	**Course Title**	**Type**	**AU**	**Remarks**
MH4912	Professional Internship	PS	10	
			10	
		Total AUs required for Graduation:	**147**	

^ These courses are double-counted towards both MATH 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