

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	
MH5915	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	
MH5915	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