

**CURRICULUM FOR BACHELOR OF SCIENCE (MATHEMATICAL SCIENCES)
WITH SECOND MAJOR IN SUSTAINABILITY
CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2026 Intake Onwards**

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Core	CNYS- Core	MPE	CC	Professional Series	Care, Serve & Learn	BDE	Total AU
1	13	27 [3]	0	3	0	0	0	43 [3]
2	12	6	0	7	3	3	16	47
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	The Systems Architecture of Life	CNYS- Core	3	
CY1101	Molecule	CNYS- Core	4	
CY1308	Physics	CNYS- Core	3	
CY1601	Mathematics I	CNYS- Core	4	
MH1300	Foundations of Mathematics	C	4	
PS0001	Introduction to Computational Thinking	C	3	
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
CY1007^	Climate Change	CNYS- Core	3	Double-counted as Planet Core
CY1500	Introduction to Research	CNYS- Core	2	
CY1602	Mathematics II	CNYS- Core	4	
MH1301	Discrete Mathematics	C	3	
MH1403	Algorithms and Computing	C	3	PS0001
NH0007	Critical Perspectives on Technology and Society	CC	3	
			18	

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

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Remarks
CY0001	Language & Logic	CNYS- Core	3	
PS5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
MH2500	Probability	C	4	
MH3100	Real Analysis I	C	4	CY1601
NH0001	Tech-For-Good Service Learning	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	CNYS- 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	
CC0015	Health & Wellbeing	CC	2	
	Second Major Compulsory Course 4	BDE	3	
	Second Major Compulsory Course 5	BDE	3	
			22	

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