

**AY2024-25 CURRICULUM FOR MATHEMATICAL SCIENCES
WITH CN YANG SCHOLARS PROGRAMME_Internship
SECOND MAJOR IN SUSTAINABILITY (MASN)
(FIRST YEAR ADMISSION)**

Last Updated : 11-Oct-23

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	School Core	CNYS Core	MPE	CC	FC	BDE	Total AU
1	13	27	0	5	0	0	45
2	12	10	0	8	3	12	45
3	0	0	19	0	0	15	34
4	12	0	0	0	10	0	22
Total	37	37	19	13	13	27	146

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	CNYS Courses
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	
CY1500	Introduction to Research	CNY-Core	2	
CY1601	Mathematics I	CNY-Core	4	
PS0001	Introduction to Computational Thinking	C	3	
CC0002	Navigating the Digital World	CC	2	
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet Core
CY1602	Mathematics II	CNY-Core	4	CNYS Course
MH1301	Discrete Mathematics	C	3	
MH1403	Algorithms and Computing	C	3	PS0001
MH3100	Real Analysis I	C	4	CY1601
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
			20	

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

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYS Course
MH1300	Foundations of Mathematics	C	4	
MH2500	Probability and Introduction to Statistics	C	4	CY1601
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
	Second Major Compulsory Course 2	BDE	3	
	Second Major Compulsory Course 3	BDE	3	
			22	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYS Course
CY2001	Research Attachment 1	CNY-Core	4	CNYS Course 2-semester long, course registered only in Sem 2 (similar to URECA)
MH3110	Ordinary Differential Equations	C	4	CY1602
PS0002	Introduction to Data Science and Artificial Intelligence	FC	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	Pre-Requisite/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	
			18	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/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	Pre-Requisite/Remarks
MH4111	Overseas Final Year Project	C	12	CNYS Course
			12	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
MH4912	Professional Internship	FC	10	
			10	

Total AU for Graduation : **146**

^ 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