

**CURRICULUM FOR BACHELOR OF SCIENCE (MATHEMATICAL SCIENCES)**  
**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	9	27	0	2	0	0	3	41
2	16	6	0	8	3	3	4	40
3	0	0	19	0	1	0	11	31
4	12	0	0	0	10	0	0	22
<b>Total</b>	<b>37</b>	<b>33</b>	<b>19</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>18</b>	<b>134</b>

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	
			<b>19</b>	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
CY1007	Climate Change	CNYSP-Core	3	
CY1602	Mathematics II	CNYSP-Core	4	
MH1301	Discrete Mathematics	C	3	
MH1403	Algorithms and Computing	C	3	
CC0015	Health & Wellbeing	CC	2	
XXXXXX	Broadening and Deepening Electives 1	BDE	3	
			<b>18</b>	

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

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	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
	Tech-For-Good	CSL	3	
			<b>19</b>	

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
MH3100	Real Analysis I	C	4	
MH3110	Ordinary Differential Equations	C	4	
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
SP0061	Science & Technology for Humanity	CC	3	
			<b>21</b>	

YEAR 3 SEMESTER 1				
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Course Code	Course Title	Type	AU	Remarks
XXXXXX	School Major PE	MPE	4	
XXXXXX	School Major PE	MPE	4	
XXXXXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 2	BDE	2	
XXXXXX	Broadening and Deepening Electives 3	BDE	3	
MLXXXX	Professional Preparation	PS	1	
			<b>17</b>	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
XXXXXX	School Major PE	MPE	4	
XXXXXX	School Major PE	MPE	4	
XXXXXX	Broadening and Deepening Electives 4	BDE	3	
XXXXXX	Broadening and Deepening Electives 5	BDE	3	
			<b>14</b>	

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

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
MH4912	Professional Internship	PS	10	
			<b>10</b>	
<b>Total AUs required for Graduation:</b>			<b>134</b>	