

**CURRICULUM FOR BACHELOR OF SCIENCE (PURE PHYSICS)**  
**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	10	27	0	4	0	0	0	41
2	18	6	0	6	3	3	4	40
3	13	0	9	0	1	0	8	31
4	12	0	0	0	10	0	0	22
<b>Total</b>	<b>53</b>	<b>33</b>	<b>9</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>12</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	
PH1198	Physics Laboratory Ia			C	2	
CC0015	Health & Wellbeing			CC	2	
					<b>23</b>	

YEAR 1 SEMESTER 2						
Course Code	Course Title			Type	AU	Remarks
CY1007	Climate Change			CNYSP-Core	3	
CY1602	Mathematics II			CNYSP-Core	4	
PH1107	Relativity and Quantum Physics			C	3	
PH1199	Physics Laboratory Ib			C	2	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World			CC	2	
					<b>14</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	
PH5915	Undergraduate Research			BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
PH1105	Optics, Vibrations and Waves			C	3	
PH2102	Electromagnetism			C	4	
PH2103	Thermal Physics			C	4	
PH2198	Physics Lab Ila			C	2	
	Tech-For-Good			CSL	3	
CC0006	Sustainability: Society, Economy & Environment			CC	3	
					<b>22</b>	

YEAR 2 SEMESTER 2						
Course Code	Course Title			Type	AU	Remarks
CY0002	Ethics			CNYSP-Core	3	
PH5915	Undergraduate Research			BDE	4	2-semester long, course registered only in Sem 2
PH2101	Quantum Mechanics I			C	3	
PH2199	Physics Lab Iib			C	2	

PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
SP0061	Science & Technology for Humanity	CC	3	
			<b>18</b>	

#### YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Remarks
PH2104	Analytical Mechanics	C	4	
PH3101	Quantum Mechanics II	C	4	
PH3103	Technological Applications of Quantum Mechanics	C	3	
PH4XXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 1	BDE	2	
MLXXXX	Profession Preparation	PS	1	
			<b>17</b>	

#### YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Remarks
PH3199	Physics Laboratory IIIa	C	2	
PH4XXX	School Major PE	MPE	3	
PH4XXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 2	BDE	3	
XXXXXX	Broadening and Deepening Electives 3	BDE	3	
			<b>14</b>	

#### YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Remarks
PH4111	Overseas Final Year Project	C	12	
			<b>12</b>	

#### YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Remarks
PH4420	Professional Internship	PS	10	
			<b>10</b>	
<b>Total AUs required for Graduation:</b>				<b>134</b>

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Year of Study	Core	CNYSP- Core	MPE	CC	Professional Series	Care, Serve & Learn	BDE	Total AU
1	10	27	0	4	0	0	0	41
2	21	6	0	6	3	3	4	43
3	9	0	9	0	1	0	9	28
4	12	0	0	0	10	0	0	22
<b>Total</b>	<b>52</b>	<b>33</b>	<b>9</b>	<b>10</b>	<b>14</b>	<b>3</b>	<b>13</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	
PH1198	Physics Laboratory Ia			C	2	
CC0015	Health & Wellbeing			CC	2	
					<b>23</b>	

YEAR 1 SEMESTER 2						
Course Code	Course Title			Type	AU	Remarks
CY1007	Climate Change			CNYSP-Core	3	
CY1602	Mathematics II			CNYSP-Core	4	
PH1107	Relativity and Quantum Physics			C	3	
PH1199	Physics Laboratory Ib			C	2	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World			CC	2	
					<b>14</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	
PH5915	Undergraduate Research			BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
PH1105	Optics, Vibrations and Waves			C	3	
PH2102	Electromagnetism			C	4	
PH2103	Thermal Physics			C	4	
PH2198	Physics Lab Ila			C	2	
CC0006	Sustainability: Society, Economy & Environment			CC	3	
	Tech-For-Good			CSL	3	
					<b>22</b>	

YEAR 2 SEMESTER 2						
Course Code	Course Title			Type	AU	Remarks
CY0002	Ethics			CNYSP-Core	3	
PH5915	Undergraduate Research			BDE	4	2-semester long, course registered only in Sem 2
PH2101	Quantum Mechanics I			C	3	
PH2199	Physics Lab IIb			C	2	
PH2301	Physics Optics			C	3	
PS0002	Introduction to Data Science and Artificial Intelligence			PS	3	
SP0061	Science & Technology for Humanity			CC	3	
					<b>21</b>	

**YEAR 3 SEMESTER 1**

Course Code	Course Title	Type	AU	Remarks
PH3101	Quantum Mechanics II	C	4	
PH3103	Technological Applications of Quantum Mechanics	C	3	
PH4XXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 1	BDE	3	
MLXXXX	Profession Preparation	PS	1	
			<b>14</b>	

**YEAR 3 SEMESTER 2**

Course Code	Course Title	Type	AU	Remarks
PH3199	Physics Laboratory IIIa	C	2	
PH4XXX	School Major PE	MPE	3	
PH4XXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 2	BDE	3	
XXXXXX	Broadening and Deepening Electives 3	BDE	3	
			<b>14</b>	

**YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1**

Course Code	Course Title	Type	AU	Remarks
PH4111	Overseas Final Year Project	C	12	
			<b>12</b>	

**YEAR 4 SEMESTER 2**

Course Code	Course Title	Type	AU	Remarks
PH4420	Professional Internship	PS	10	
			<b>10</b>	
<b>Total AUs required for Graduation:</b>				<b>134</b>