

CURRICULUM FOR BACHELOR OF SCIENCE (PURE PHYSICS)
CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2026 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	8	0	0	0	45
2	18	6	0	2	3	3	4	36
3	13	0	9	0	1	0	8	31
4	12	0	0	0	10	0	0	22
Total	53	33	9	10	14	3	12	134

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Remarks
CY1001	The Systems Architecture of Life	CNY-Core	3	
CY1101	Molecule	CNYSP-Core	4	
CY1308	Physics	CNYSP-Core	3	
CY1601	Mathematics I	CNYSP-Core	4	
PS0001	Introduction to Computational Thinking	C	3	
PH1198	Physics Laboratory Ia	C	2	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
			22	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
CY1007	Climate Change	CNYSP-Core	3	
CY1500	Introduction to Research	CNYSP-Core	2	
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	
NH0007	Critical Perspectives on Technology and Society	CC	3	
			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	Language & Logic	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
PH1105	Optics, Vibrations and Waves	C	3	
PH2102	Electromagnetism	C	4	
PH2103	Thermal Physics	C	4	
PH2198	Physics Lab IIa	C	2	
NH0001	Tech-For-Good Service Learning	CSL	3	
CC0015	Health & Wellbeing	CC	2	
			21	

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
PH2101	Quantum Mechanics I	C	3	

PH2199	Physics Lab IIb	C	2	
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
			15	

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	
			17	

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	
			14	

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Remarks
PH4111	Overseas Final Year Project	C	12	
			12	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Remarks
PH4420	Professional Internship	PS	10	
			10	
Total AUs required for Graduation:			134	

CURRICULUM FOR BACHELOR OF SCIENCE (APPLIED PHYSICS)
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(FIRST YEAR ADMISSION)
AY2026 Intake Onwards

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PH2301	Physics Optics	C	3	

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