

**AY2022-23 CURRICULUM FOR CHEMISTRY AND BIOLOGICAL CHEMISTRY  
WITH CN YANG SCHOLARS PROGRAMME\_Internship  
(FIRST YEAR ADMISSION)**

Last Updated : 13-Oct-22

**SUMMARY OF ACADEMIC UNIT REQUIREMENT**

Year of Study	School Core	CNYS Core	MPE	CC	FC	BDE	Total AU
1	6	27	0	5	0	3	41
2	15	10	0	8	3	0	36
3	18	0	12	0	0	5	35
4	12	0	0	0	10	0	22
<b>Total</b>	<b>51</b>	<b>37</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>8</b>	<b>134</b>

**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	
CC0005	Healthy Living & Mental Wellbeing in an Aging Society	CC	3	
CC0002	Navigating the Digital World	CC	2	
			<b>21</b>	

**YEAR 1 SEMESTER 2**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Climate Change	CNY-Core	3	CNYS Courses
CY1602	Mathematics II	CNY-Core	4	
CM2031	Organic & Bioorganic Chemistry	C	3	Pre-req (CY1101 Molecule) fulfilled at the end of Y1S1
CM2041	Physical & Biophysical Chemistry 1	C	3	
XXXXXX	Broadening and Deepening Electives 1	BDE	3	
			<b>16</b>	

**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			
			<b>4</b>	

**YEAR 2 SEMESTER 1**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYS Course
CM2011	Analytical & Bioanalytical Chemistry	C	3	
CM2021	Inorganic & Bioinorganic Chemistry	C	3	
CM2061	Chemistry & Biological Chemistry Lab 1	C	3	
PS0001	Introduction to Computational Thinking	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			<b>20</b>	

**YEAR 2 SEMESTER 2**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY2001	Research Attachment 1	CNY-Core	4	CNYS Course 2-semester long, course registered only in Sem 2 (similar to URECA)
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYS Course
CM2062	Chemistry & Biological Chemistry Lab 2	C	3	
PS0002	Introduction to Data Science and Artificial Intelligence	FC	3	
CC0007	Science & Technology for Humanity	CC	3	
			<b>16</b>	

**YEAR 3 SEMESTER 1**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CM3011	Chemical Spectroscopy & Applications	C	3	
CM3041	Physical & Biophysical Chemistry 2	C	3	
CM3062	Chemistry & Biological Chemistry Lab 4	C	3	
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
CY1307	Quantum	BDE	3	Students can choose to opt out and replace with any other BDE course (3 AU)
			<b>18</b>	

**YEAR 3 SEMESTER 2**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CM3021	Organometallic Chemistry	C	3	
CM3031	Organic Reaction Mechanism & Synthesis	C	3	
CM3061	Chemistry & Biological Chemistry Lab 3	C	3	
CM4XXX	School Major PE	MPE	3	
CM4XXX	School Major PE	MPE	3	
XXXXXX	Broadening and Deepening Electives 2	BDE	2	
			<b>17</b>	

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

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CM4111	Overseas Final Year Project	C	12	CNYS Course
			<b>12</b>	

**YEAR 4 SEMESTER 2**

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CM4081	Professional Internship	FC	10	
			<b>10</b>	

Total AU for Graduation : **134**