

**AY2024-25 CURRICULUM FOR CHEMISTRY AND BIOLOGICAL CHEMISTRY
WITH CN YANG SCHOLARS PROGRAMME_Internship
(FIRST YEAR ADMISSION)**

Last Updated : 5-Jul-24

| SUMMARY OF ACADEMIC UNIT REQUIREMENT | | | | | | | |
|--------------------------------------|-------------|-----------|-----------|-----------|-----------|----------|------------|
| Year of Study | School Core | CNYS Core | MPE | CC | FC | BDE | Total AU |
| 1 | 6 | 27 | 0 | 5 | 0 | 6 | 44 |
| 2 | 15 | 10 | 0 | 8 | 3 | 0 | 36 |
| 3 | 18 | 0 | 12 | 0 | 0 | 2 | 32 |
| 4 | 12 | 0 | 0 | 0 | 10 | 0 | 22 |
| Total | 51 | 37 | 12 | 13 | 13 | 8 | 134 |

| 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 | |
| | | | 21 | |

| 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 | |
| CY1307 | Quantum | BDE | 3 | Students can choose to opt out and replace with any other BDE course (3 AU) |
| | | | 19 | |

| 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 |
| 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 | |
| | | | 20 | |

| YEAR 2 SEMESTER 2 | | | | |
|-------------------|--------------|------|----|-----------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |

| | | | | |
|--------|--|----------|-----------|---|
| CY2001 | Research Attachment 1 | CNY-Core | 4 | CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA) |
| CY0002 | Ethics | CNY-Core | 3 | CNYSP Course |
| CM2062 | Chemistry & Biological Chemistry Lab 2 | C | 3 | |
| PS0002 | Introduction to Data Science and Artificial Intelligence | FC | 3 | |
| SP0061 | Science & Technology for Humanity | CC | 3 | |
| | | | 16 | |

YEAR 3 SEMESTER 1

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|--|------|-----------|--|
| CM3xxx | Chem-Core | C | 3 | CM3011, CM3021, CM3031, CM3041 are offered in both semesters |
| CM3xxx | Chem-Core | C | 3 | |
| CM3062 | Chemistry & Biological Chemistry Lab 4 | C | 3 | |
| CM4XXX | School Major PE | MPE | 3 | |
| CM4XXX | School Major PE | MPE | 3 | |
| | | | 15 | |

YEAR 3 SEMESTER 2

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|--|------|-----------|--|
| CM3xxx | Chem-Core | C | 3 | CM3011, CM3021, CM3031, CM3041 are offered in both semesters |
| CM3xxx | Chem-Core | 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 | |
| | | | 17 | |

YEAR 3 SPECIAL SEMESTER & YEAR 4 SEMESTER 1

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|-----------------------------|------|-----------|-----------------------|
| CM4111 | Overseas Final Year Project | C | 12 | CNYSP Course |
| | | | 12 | |

YEAR 4 SEMESTER 2

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|-------------------------|------|-----------|-----------------------|
| CM4081 | Professional Internship | FC | 10 | |
| | | | 10 | |

Total AU for Graduation : **134**