

**CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)
AY2025 Intake Onwards**

SUMMARY OF ACADEMIC UNIT REQUIREMENT

| Year of Study | Major Requirements | | | Interdisciplinary Collaborative Core | | | Broadening & | Total AU |
|---------------|--------------------|------------|----------|--------------------------------------|---------------------|---------------------|---------------------|------------|
| | Core | CNYS-PCore | MPE | Common Core | Professional Series | Care, Serve & Learn | Deepening Electives | |
| 1 | 16 | 27 | 0 | 2 | 0 | 0 | 0 | 45 |
| 2 | 17 | 10 | 0 | 5 | 3 | 3 | 0 | 38 |
| 3 | 20 | 0 | 0 | 3 | 6 | 0 | 0 | 29 |
| 4 | 14 | 0 | 3 | 0 | 0 | 0 | 7 | 24 |
| Total | 67 | 37 | 3 | 10 | 9 | 3 | 7 | 136 |

YEAR 1 SEMESTER 1

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|---|----------|-----------|-----------------------|
| CY1001 | Cell | CNY-Core | 3 | CNYS-PCourses |
| CY1101 | Molecule | CNY-Core | 4 | |
| CY1308 | Physics | CNY-Core | 3 | |
| CY1500 | Introduction to Research | CNY-Core | 2 | |
| CY1601 | Mathematics I | CNY-Core | 4 | |
| CV1011 | Mechanics of Materials | C | 4 | |
| CV1711 | Engineering Drawing and 3D Building Information Modelling | C | 1 | |
| | | | 21 | |

YEAR 1 SEMESTER 2

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|---|----------|-----------|-----------------------|
| CY1007 | Climate Change | CNY-Core | 3 | CNYS-PCourses |
| CY1602 | Mathematics II | CNY-Core | 4 | |
| CV1012 | Fluid Mechanics | C | 3 | |
| CV1014 | Introduction To Computational Thinking | C | 3 | |
| EN2002 | Microbiological Principles of Environmental Engineering | C | 3 | |
| EG1001 | Engineers In Society | C | 2 | |
| CC0015 | Health & Wellbeing | CC | 2 | |
| | | | 20 | |

YEAR 1 SPECIAL SEMESTER

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|------------------------|----------|----------|-----------------------|
| CY2003 | Research Attachment 3 | CNY-Core | 4 | CNYS-PCourse |
| | 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-PCourse |
| EN2004 | Geo-Environment and Soil Mechanics | C | 3 | |
| EN2711 | Environmental Engineering Laboratory A | C | 1 | |
| MH2814 | Probability & Statistics | C | 3 | MH1810 |
| CV0003 | Introduction to Data Science and Artificial Intelligence | PS | 3 | CV1014 |
| ML0004 | Career Design & Workplace Readiness in the V.U.C.A World | CC | 2 | |
| | Tech-For-Good (T4G) | CSL | 3 | |
| | | | 18 | |

YEAR 2 SEMESTER 2

| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
|-------------|--|----------|-----------|---|
| CY0002 | Ethics | CNY-Core | 3 | CNYS-PCourse |
| CY2001 | Research Attachment 1 | CNY-Core | 4 | CNYS-PCourse 2-semester long, course registered only in Sem 2 (similar to URECA) |
| CV2020 | Water Resources Engineering | C | 3 | CV1012 |
| EN2003 | Water Supply Engineering | C | 3 | CV1012 |
| EN2005 | Environmental Health and Safety Management | C | 3 | |
| EN2712 | Environmental Engineering Laboratory B | C | 1 | |
| SP0061 | Science and Technology for Humanity | CC | 3 | |
| | | | 20 | |

| YEAR 3 SEMESTER 1 | | | | |
|-------------------|--|------|-----------|-----------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
| EN3001 | Solid & Hazardous Waste Management | C | 3 | Year 3 Standing |
| EN3002 | Wastewater Engineering | C | 3 | Year 3 Standing |
| EN3004 | Air Pollution Control Engineering | C | 3 | Year 3 Standing |
| EN3006 | Energy Resource Engineering | C | 3 | |
| CC0006 | Sustainability: Society, Economy & Environment | CC | 3 | |
| MLXXXX | Profession Preparation | PS | 1 | |
| | | | 16 | |

| YEAR 3 SEMESTER 2 | | | | |
|-------------------|-----------------------------------|------|----------|---------------------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
| EN4211 | CNYSO Overseas Final Year Project | C | 8 | Year 4 Standing CNYSO Course |
| | | | 8 | |

| YEAR 3 SPECIAL SEMESTER | | | | |
|-------------------------|-------------------------|------|----------|---|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
| EN3910 | Professional Attachment | PS | 5 | Year 3 standing & completed at least 4 semesters of study |
| | | | 5 | |

| YEAR 4 SEMESTER 1 | | | | |
|-------------------|--|------|-----------|-----------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
| CV4012 | Project Planning & Management | C | 2 | Year 4 Standing |
| EN4001 | Environmental Impact Analysis & Monitoring | C | 3 | |
| EN4711 | Seminars on Built Environment | C | 1 | |
| EN4XXX | Major Prescribed Elective | MPE | 3 | Refer to Syllabus |
| | Broadening & Deepening Elective 1 | BDE | 2 | |
| | | | 11 | |

| YEAR 4 SEMESTER 2 | | | | |
|--------------------------|-----------------------------------|------|------------|-----------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite/Remarks |
| EN3003 | Environmental Transport Processes | C | 3 | |
| EN4003 | Environmental Systems Analysis | C | 2 | |
| EN4912 | Integrated Design Project | C | 3 | Year 4 Standing |
| | Broadening & Deepening Elective 2 | BDE | 3 | |
| | Broadening & Deepening Elective 3 | BDE | 2 | |
| | | | 13 | |
| Total AU for Graduation: | | | 136 | |