

AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)

Last Updated : 2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major Requirements			Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	CNYS-SP-Core	MPE	Common Core	Professional Series	Care, Serve, Learn		
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-SP Courses
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-SP Courses
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-SP 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-SP Course
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-SP Course
CY2001	Research Attachment 1	CNY-Core	4	CNYS-SP Course 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	CNYSP Overseas Final Year Project	C	8	Year 4 Standing CNYSP 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
CY1307	Quantum	BDE	3	Optional, may replace with other BDE
	Broadening & Deepening Elective 2	BDE	2	
			13	

Total AU for Graduation: **136**

Common Core

1. CC0004 (2AU)
2. CC0015 (2AU)
3. CC0006 (3 AU)
4. SP0061 (3AU) -> replaces CC0007

Professional Series

1. Professional Attachment (5AU)
2. Digital Literacy (3AU)
3. Profession Preparation (1AU)

Care, Serve and Learn (CSL)

1. Tech-For-Good (T4G)- 3AU, in Y2S1

1. CC0001 (2AU)
 2. CC0003 (2AU), and
 3. Professional Communication (2AU)
- will be replaced by
1. CY0001 Writing Across the Disciplines (3AU) and
 2. CY0002 Ethics (3AU).
- CY0001 and CY0002 is classified as CNY-Core.