

**AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)**

Last Updated : 23-Jun-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Core	CNYS Core	MPE	CC	FC	BDE	Total AU
1	10	30	0	5	0	0	45
2	23	10	0	5	3	3	44
3	23	0	0	3	5	0	31
4	11	0	3	0	0	2	16
Total	67	40	3	13	8	5	136

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	
CV1011	Mechanics of Materials	C	4	
CC0002	Navigating the Digital World	CC	2	
			22	

YEAR 1 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Living with Climate Change	CNY-Core	3	CNYS Courses
CY1400	CNYS Undergraduate Research Experience	CNY-Core	3	
CY1602	Mathematics II	CNY-Core	4	
CV1014	Introduction To Computational Thinking	C	3	
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
EG1001	Engineers In Society	C	2	
CC0005	Healthy Living & Wellbeing	CC	3	
			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
CY0002	Ethics	CNY-Core	3	CNYS Courses
CY2001	Research Attachment 1	CNY-Core	4	
CY1307	Quantum	BDE	3	Optional, may replace with other BDE
CV1012	Fluid Mechanics	C	3	
CV2011	Structural Analysis I	C	3	CV1011
EN2004	Soil Environment and Soil Mechanics	C	3	
EN2711	Environmental Engineering Laboratory A	C	1	
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014

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YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYS Course
CV2020	Water Resources Engineering	C	3	CV1012
EN2002	Environmental Biology and Microbiology	C	3	
EN2003	Water Supply Engineering	C	3	CV1012
EN2712	Environmental Engineering Laboratory B	C	1	
EN3003	Environmental Transport Processes	C	3	
CC0007	Science & Technology for Humanity	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			21	

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	
MH2814	Probability & Statistics	C	3	MH1810
CC0006	Sustainability: Society, Economy & Environment	CC	3	
			18	

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

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN3915	Professional Attachment	FC	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 & Site Visits	C	1	
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
			9	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN4003	Environmental Systems Analysis	C	2	
EN4912	Integrated Design Project	C	3	Year 4 Standing
	Broadening & Deepening Elective 1	BDE	2	

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Total AU for Graduation : **136**