

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

Last Updated : 28-Oct-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	Core	CNYS Core	MPE	CC	FC	BDE	Total AU
1	13	27	0	5	0	0	45
2	20	10	0	5	3	3	41
3	23	0	0	3	5	0	31
4	11	0	3	0	0	5	19
Total	67	37	3	13	8	8	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	
CY1602	Mathematics II	CNY-Core	4		
CV1014	Introduction To Computational Thinking	C	3		
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1		
EN2002	Environmental Biology and Microbiology	C	3		
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	2		
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	
			21		

YEAR 2 SEMESTER 2					
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks	
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYS Courses	
CY2001	Research Attachment 1	CNY-Core	2		
CV2020	Water Resources Engineering	C	3	CV1012	
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		
			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		
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	
			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	3		
	Broadening & Deepening Elective 2	BDE	2		
			10		

Total AU for Graduation: **136**