

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

SUMMARY OF ACADEMIC UNIT REQUIREMENT								
Year of Study	Major Requirements			Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	CNYSP-Core	MPE	Common Core	Professional Series	Care, Serve & Learn		
1	16 [2]	27 [3]	0	2	0	0	0	45 [5]
2	17	6	0	5	3	3	7	41
3	20	0	0	3	6	0	3	32
4	14	0	3	0	0	0	19	36
<b>Total</b>	<b>67 [2]</b>	<b>33 [3]</b>	<b>3</b>	<b>10</b>	<b>9</b>	<b>3</b>	<b>29</b>	<b>154 [5]</b>

[ ] AU of courses that could be used to fulfil Core requirement and second major requirement concurrently.

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	CNYSP 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	
			<b>21</b>	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet Core
CY1602	Mathematics II	CNY-Core	4	CNYSP Courses
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	Double-counted as Practice Core
CC0015	Health & Wellbeing	CC	2	
			<b>20</b>	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY2003	Research Attachment 3	CNY-Core	4	CNYSP Course
	Overseas Learning Trip			
			<b>4</b>	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course
EN5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
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	
	Second Major Compulsory Course 3	BDE	3	<a href="#">Please see attached list of</a>
			21	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYS Course
EN5915	Undergraduate Research	BDE	4	2-semester long, course registered only in Sem 2
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 & 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	
MLXXX	Profession Preparation	PS	1	
	Second Major Compulsory Course 4	BDE	3	<a href="#">Please see attached list of</a>
			19	

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
EN3910	Professional Attachment	PS	5	Year 3 standing &
			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
	Second Major Compulsory Course 5	BDE	3	<a href="#">Please see attached list of core courses to choose</a>
	SN Elective 1	BDE	3	<a href="#">Please see attached list of</a>
	SN Elective 2	BDE	3	<a href="#">electives to choose from</a>
			18	

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
	SN Elective 3	BDE	3	<a href="#">Please see attached list of electives to choose from</a>
	SN Elective 4	BDE	4	
	Second Major Interdisciplinary Project	BDE	3	
			<b>18</b>	
Total AU for Graduation:			<b>154</b>	

*^ These courses are double-counted towards both ENE as well as the Second Major in Sustainability.*

<b>Compulsory Courses and Electives for Second Major in Sustainability</b>	
<a href="https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00">https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00</a>	