

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
Total	67 [2]	33 [3]	3	10	9	3	29	154 [5]

[] 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	
			21	

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	
			20	

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			
			4	

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	Please see attached list of
			21	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP 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	
MLXXXX	Profession Preparation	PS	1	
	Second Major Compulsory Course 4	BDE	3	Please see attached list of
			19	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN4211	CNYSP 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	Please see attached list of core courses to choose
	SN Elective 1	BDE	3	Please see attached list of electives to choose from
	SN Elective 2	BDE	3	
			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	Please see attached list of electives to choose from
	SN Elective 4	BDE	4	
	Second Major Interdisciplinary Project	BDE	3	
			18	
	Total AU for Graduation:		154	

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

Compulsory Courses and Electives for Second Major in Sustainability

https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_C00