

CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
WITH CN YANG SCHOLARS PROGRAMME
SECOND MAJOR IN SUSTAINABILITY (ENSN)
(FIRST YEAR ADMISSION)
AY2026 Intake Onwards

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major Requirements			Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	Core	CNYS-PCore	MPE	Common Core	Professional Series	Care, Serve, Learn		
1	15 [2]	27 [3]	0	5	0	0	0	47 [5]
2	17	6	0	5	3	3	7	41
3	23	0	0	0	6	0	3	32
4	15	0	3	0	0	0	19	37
Total	70 [2]	33 [3]	3	10	9	3	29	157 [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	The Systems Architecture of Life	CNY-Core	3	CNYS-PCourses
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	
CY1601	Mathematics I	CNY-Core	4	
CV1012	Fluid Mechanics	C	3	
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
CC0015	Health & Wellbeing	CC	2	
			20	

YEAR 1 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007^	Climate Change	CNY-Core	3	Double-counted as Planet Core
CY1500	Introduction to Research	CNY-Core	2	CNYS-PCourses
CY1602	Mathematics II	CNY-Core	4	
CV1014	Introduction To Computational Thinking	C	3	
CV2020	Water Resources Engineering	C	3	CV1012
EN2002	Microbiological Principles of Environmental Engineering	C	3	
EG1001^	Engineers In Society	C	2	Double-counted as Practice Core
NH0007	Critical Perspectives on Technology and Society	CC	3	
			23	

YEAR 1 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY2003	Research Attachment 3	CNY-Core	4	CNYS-PCourse
	Overseas Learning Trip			
			4	

YEAR 2 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0001	Language & Logic	CNY-Core	3	CNYS-PCourse
EN5915	Undergraduate Research	BDE	IP	Course will be registered in Semester 2. Grades will be recorded at the end of Semester 2
EN2003	Water Supply Engineering	C	3	
EN2004	Geo-Environment and Soil Mechanics	C	3	
EN2711	Environmental Engineering Laboratory A	C	1	
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	
NH0001	Tech-for-Good Service Learning	CSL	3	
			18	

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 register only in Semester 2
EN2712	Environmental Engineering Laboratory B	C	1	
EN3002	Wastewater Engineering	C	3	
EN3003	Environmental Transport Processes	C	3	
EN3004	Air Pollution Control Engineering	C	3	
CC0006	Sustainability: Society, Economy & Environment	CC	3	
	Second Major Compulsory Course 3	BDE-SN	3	Please see attached list of courses to choose from
			23	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN3001	Solid & Hazardous Waste Management	C	3	
EN3006	Energy Resource Engineering	C	3	
EN3007	Sustainability Management & Reporting	C	3	
EN4001	Environmental Impact Analysis & Monitoring	C	3	
MH2814	Probability & Statistics	C	3	MH1810
MLxxxx	Profession Preparation	PS	1	
	Second Major Compulsory Course 4	BDE-SN	3	Please see attached list of courses to choose from
			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 & completed at least 4
			5	

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN4004	Membranes for Environmental Applications	C	3	
EN4711	Seminars on Built Environment	C	1	
EN4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Second Major Compulsory Course 5	BDE-SN	3	Please see attached list of courses to choose from
ES5100	Second Major Interdisciplinary Project	BDE-SN	3	
	SN Elective 1	BDE-SN	3	Please see attached list of electives to choose from
	SN Elective 2	BDE-SN	3	
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
EN2005	Environmental Health and Safety Management	C	3	
EN4002	Environmental Systems Analysis	C	3	Year 3 Standing
EN4915	Integrated Project Planning, Design, and Management	C	5	Year 4 Standing
	SN Elective 3	BDE-SN	3	Please see attached list of electives to choose from
	SN Elective 4	BDE-SN	4	
			18	

Total AU for Graduation: **157**

^ 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
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https://www.ntu.edu.sg/ase/admissions/undergraduate-programmes/second-major-in-sustainability#Content_C002_Col00
