AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL) WITH CN YANG SCHOLARS PROGRAMME SECOND MAJOR IN SUSTAINABILITY (CVSN) (FIRST YEAR ADMISSION)

Last U	pdated:	2-Ju	l-25
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SUMMARY OF ACADEMIC UNIT REQUIREMENT									
	Major Requirements Interdisciplinary Collaborative Core			Major Requirements		Major Requirements Interdisciplinary Collaborative Core		Broadening &	
Year of Study	School Core	CNYSP-Core	MPE	Common Core	Professional	Care, Serve,	Deepening	Total AU	
	School core	CIVISI -COIC	1411 -	Common Corc	Series	Learn	Electives		
1	16	27	0	2	0	0	0	45	
2	17	10	0	5	3	3	3	41	
3	22	0	0	3	6	0	3	34	
4	12	0	3	0	0	0	19	34	
Total	67	37	3	10	9	3	25	154	

YEAR 1 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	
CY1101	Molecule	CNY-Core	4	
CY1308	Physics	CNY-Core	3	CNYSP Courses
CY1500	Introduction to Research	CNY-Core	2	
CY1601	Mathematics I	CNY-Core	4	
CV1011	Mechanics of Materials	С	4	
CV1711	Engineering Drawing and 3D Building Information Modelling	С	1	
			21	

	YEAR 1 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CV1007A	CY1007^ Climate Change CNY-Core	3	Double-counted as Planet	
C11007/		CINY-Core	3	Core
CY1602	Mathematics II	CNY-Core	4	CNYSP Courses
CV1012	Fluid Mechanics	С	3	
CV1013	Civil Engineering Materials	С	3	
CV1014	Introduction To Computational Thinking	С	3	
FC1001A	Engineers In Society	_	2	Double-counted as
EG1001^	Engineers In Society	С		Practice Core
CC0015	Health & Wellbeing	CC	2	
			20	

	YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Туре	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	Туре	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSP Course
CV2011	Structural Analysis I	С	3	CV1011
CV2013	Engineering Geology & Soil Mechanics	С	3	
CV2711	Civil Engineering Laboratory A	С	1	
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
	Tech-For-Good (T4G)	CSL	3	
	Second Major Compulsory Course 3	BDE	3	
			19	

	YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks		
CY0002	Ethics	CNY-Core	3	CNYSP Course		
	Research Attachment 1	CNY-Core		CNYSP Course		
CY2001			4	2-semester long, course		
C12001			7	registered only in Sem 2		
				(similar to URECA)		

CV2012	Structural Analysis II	С	3	CV2011
CV2014	Geotechnical Engineering	С	3	CV2013
CV2020	Water Resources Engineering	С	3	CV1012
CV2712	Civil Engineering Laboratory B	С	1	
SP0061	Science and Technology for Humanity	CC	3	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
			22	

YEAR 3 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CV3011	Reinforced Concrete Design	С	3	CV2011
CV3013	Foundation Engineering	С	3	CV2013 & CV2014
CV3014	Transportation Engineering	С	3	
CV3017	Urban Water Circularity	С	2	CV1012
MH2814	Probability & Statistics	С	3	MH1810
CC0006	Sustainability: Society, Economy & Environment	CC	3	
MLxxxx	Profession Preparation	PS	1	
	Second Major Compulsory Course 4	BDE	3	
			21	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CV4211	CNYSP Overseas Final Year Project	С	8	Year 4 Standing CNYSP Course
			8	

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks
CV3910	Professional Attachment	PS	5	Year 3 standing & completed at least 4 semesters of study
			5	

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-Requisite/Remarks	
CV4012	Project Planning & Management	С	2	Year 4 Standing	
CV4711	Seminars on Built Environment	С	1		
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus	
	Second Major Compulsory Course 5	BDE	3		
	Second Major Interdisciplinary Project	BDE	3		
	SN Elective 1	BDE	3	Please see attached list	
			15		

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CV3012	Steel Design	С	3	CV2011
CV3016	Construction Technology & Processes	С	3	
CV4912	Integrated Design Project	С	3	Year 4 Standing
	SN Elective 2	BDE	3	Please see attached list
	SN Elective 3	BDE	3	of electives to choose
	SN Elective 4	BDE	4	<u>from</u>
			19	

Total AU for Graduation: 154

^ These courses are double-counted towards both CEE 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 Col00