

AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)
WITH CN YANG SCHOLARS PROGRAMME
(FIRST YEAR ADMISSION)

Last Updated : 2-Jul-25

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major Requirements			Interdisciplinary Collaborative Core			Broadening & Deepening Electives	Total AU
	School Core	CNYSP-Core	MPE	Common Core	Professional Series	Care, Serve, Learn		
1	16	27	0	2	0	0	0	45
2	20	10	0	5	3	3	0	41
3	19	0	0	3	6	0	2	30
4	12	0	3	0	0	0	5	20
Total	67	37	3	10	9	3	7	136

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	CNYSP Courses
CY1602	Mathematics II	CNY-Core	4	
CV1012	Fluid Mechanics	C	3	
CV1013	Civil Engineering Materials	C	3	
CV1014	Introduction To Computational Thinking	C	3	
EG1001	Engineers In Society	C	2	
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
CV2011	Structural Analysis I	C	3	CV1011
CV2013	Engineering Geology & Soil Mechanics	C	3	
CV2711	Civil Engineering Laboratory A	C	1	
MH2814	Probability & Statistics	C	3	MH1810
CV0003	Introduction to Data Science and Artificial Intelligence	PS	3	CV1014
	Tech-For-Good (T4G)	CSL	3	
			19	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSP Course
CY2001	Research Attachment 1	CNY-Core	4	CNYSP Course 2-semester long, course registered only in Sem 2 (similar to URECA)
CV2012	Structural Analysis II	C	3	CV2011

CV2014	Geotechnical Engineering	C	3	CV2013
CV2020	Water Resources Engineering	C	3	CV1012
CV2712	Civil Engineering Laboratory B	C	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	Type	AU	Pre-Requisite/Remarks
CV3011	Reinforced Concrete Design	C	3	CV2011
CV3013	Foundation Engineering	C	3	CV2013 & CV2014
CV3014	Transportation Engineering	C	3	
CV3017	Urban Water Circularity	C	2	CV1012
CC0006	Sustainability: Society, Economy & Environment	CC	3	
MLxxxx	Profession Preparation	PS	1	
	Broadening & Deepening Elective 1	BDE	2	
			17	

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

YEAR 3 SPECIAL SEMESTER				
Course Code	Course Title	Type	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	Type	AU	Pre-Requisite/Remarks
CV4012	Project Planning & Management	C	2	Year 4 Standing
CV4711	Seminars on Built Environment	C	1	
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Broadening & Deepening Elective 2	BDE	2	
			8	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CV3012	Steel Design	C	3	CV2011
CV3016	Construction Technology & Processes	C	3	
CV4912	Integrated Design Project	C	3	Year 4 Standing
CY1307	Quantum	BDE	3	Optional, may replace with other BDE
			12	

Total AU for Graduation: **136**