

**CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)**  
**WITH CN YANG SCHOLARS PROGRAMME**  
**(FIRST YEAR ADMISSION)**  
**AY2025 Intake Onwards**

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	6	0	5	3	3	4	41
3	19	0	0	3	6	0	2	30
4	12	0	3	0	0	0	5	20
<b>Total</b>	<b>67</b>	<b>33</b>	<b>3</b>	<b>10</b>	<b>9</b>	<b>3</b>	<b>11</b>	<b>136</b>

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	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		
					<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	
CV5915	Undergraduate Research			BDE	IP		
CV2011	Structural Analysis I			C	3		
CV2013	Engineering Geology & Soil Mechanics			C	3		
CV2711	Civil Engineering Laboratory A			C	1		
MH2814	Probability & Statistics			C	3		
CV0003	Introduction to Data Science and Artificial Intelligence			PS	3	CV1014	
	Tech-For-Good (T4G)			CSL	3		
					<b>19</b>		

YEAR 2 SEMESTER 2							
Course Code	Course Title			Type	AU	Pre-Requisite/Remarks	
CY0002	Ethics			CNY-Core	3	2-semester long, course registered only in Sem 2	
CV5915	Undergraduate Research			BDE	4		
CV2012	Structural Analysis II			C	3		
CV2014	Geotechnical Engineering			C	3		

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	
			<b>22</b>	

#### 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	
			<b>17</b>	

#### 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
			<b>8</b>	

#### 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
			<b>5</b>	

#### 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	
			<b>8</b>	

#### 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
	Broadening & Deepening Elective 3	BDE	3	
			<b>12</b>	
Total AU for Graduation:				<b>136</b>