

**AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)  
WITH CN YANG SCHOLARS PROGRAMME  
(FIRST YEAR ADMISSION)**

Last Updated : 23-Jun-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT							
Year of Study	School Core	CNYSB-Core	MPE	CC	FC	BDE	Total AU
1	12	30	0	5	0	0	<b>47</b>
2	21	10	0	5	3	3	<b>42</b>
3	22	0	0	3	5	0	<b>30</b>
4	12	0	3	0	0	2	<b>17</b>
<b>Total</b>	<b>67</b>	<b>40</b>	<b>3</b>	<b>13</b>	<b>8</b>	<b>5</b>	<b>136</b>

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1001	Cell	CNY-Core	3	CNYSB 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	
CC0002	Navigating the Digital World	CC	2	
			<b>22</b>	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY1007	Living with Climate Change	CNY-Core	3	CNYSB Courses
CY1400	CNYSB Undergraduate Research Experience	CNY-Core	3	
CY1602	Mathematics II	CNY-Core	4	
CV1013	Civil Engineering Materials	C	3	
CV1014	Introduction To Computational Thinking	C	3	
EG1001	Engineers In Society	C	2	
CC0005	Healthy Living & Wellbeing	CC	3	
			<b>21</b>	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY2003	Research Attachment 3	CNY-Core	4	CNYSB Course
	Overseas Learning Trip			
			<b>4</b>	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0002	Ethics	CNY-Core	3	CNYSB Courses
CY2001	Research Attachment 1	CNY-Core	4	
CY1307	Quantum	BDE	3	Optional, may replace with other BDE
CV1012	Fluid Mechanics	C	3	
CV2011	Structural Analysis I	C	3	CV1011
CV2013	Engineering Geology & Soil Mechanics	C	3	
CV2711	Civil Engineering Laboratory A	C	1	
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014

			<b>23</b>	
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### YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CY0001	Writing Across the Disciplines	CNY-Core	3	CNYSF Course
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
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	
CC0007	Science & Technology for Humanity	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
			<b>19</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	Environmental Engineering	C	2	CV1012
MH2814	Probability & Statistics	C	3	MH1810
CC0006	Sustainability: Society, Economy & Environment	CC	3	
			<b>17</b>	

### YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CV4211	CNYSF Overseas Final Year Project	C	8	Year 4 Standing
				CNYSF Course
			<b>8</b>	

### YEAR 3 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-Requisite/Remarks
CV3915	Professional Attachment	FC	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 & Site Visits	C	1	
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	Broadering & Deepening Elective 1	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
			<b>9</b>	

Total AU for Graduation : **136**