

**Curriculum for CN Yang Scholars Programme
Civil Engineering
(For AY2020-21 intake)**

Course Type	AU
Core Courses	112
Major Prescribed Electives	9
GER-Core	19
Unrestricted Electives	2
Total	142

Year 1 Semester 1	Course Code	Course Title	Type	AU
	CY1001	Introductory Biology	Core	3
	CY1101	Principles of Modern Chemistry	Core	3
	CY1308	Physics	Core	3
	CY1500	Introductory Research Methodology	Core	3
	CY1601	Mathematics I	Core	4
	CV1011	Mechanics of Materials (Engineering Fundamentals 1)	Core	4
	Total AUs			20

Year 1 Semester 2	Course Code	Course Title	Type	AU
	CY1007	Climate Change	Core	3
	CY1307	Relativity and Quantum Physics	Core	3
	CY1400	CNYSP Undergraduate Research Experience	Core	3
	CY1602	Mathematics II	Core	4
	CV1012	Fluid Mechanics	Core	3
	CV1014	Introduction to Computational Thinking	Core	3
	-	Engineering Fundamentals 2	Core	3
Total AUs			22	

Year 1 Special Term	Course Code	Course Title	Type	AU
	CY2003	Research Attachment 3 (Making & Tinkering)	Core	4
	Overseas Learning Trip			
Total AUs			4	

Year 2 Semester 1	Course Code	Course Title	Type	AU
	CY2001	Research Attachment 1	Core	4
	CY0002	Ethics	GER-Core	3
	CV2011	Structural Analysis I	Core	3
	CV2013	Engineering Geology & Soil Mechanics	Core	3
	CV2020	Water Resources Engineering	Core	3
	CV2711	Civil Engineering Laboratory A	Core	1
	MH2814	Probability and Statistics	Core	3
CV0003	Introduction to Data Science and Artificial Intelligence	GER-Core	3	
Total AUs			23	

Year 2 Semester 2	Course Code	Course Title	Type	AU
	CY0001	Writing Across the Disciplines	GER-Core	3
	CV1013	Civil Engineering Materials	Core	3
	CV2012	Structural Analysis II	Core	3
	CV2014	Geotechnical Engineering	Core	3
	CV2712	Civil Engineering Laboratory B	Core	1
	CV0001	Civil Engineering and Sustainable Built Environment	GER-Core	3
EG0001	Engineers & Society	GER-Core	3	

	ML0003	Kickstart your Career Success	GER-Core	1
			Total AUs	20

	Course Code	Course Title	Type	AU
Year 3 Semester 1	CV3011	Reinforced Concrete Design	Core	3
	CV3013	Foundation Engineering	Core	3
	CV3014	Transportation Engineering	Core	3
	CV3015	Environmental Engineering	Core	3
	CV4011	Project Planning & Management	Core	3
	CV4711	Seminars & Site Visits	Core	1
	CY0006	Enterprise, Innovation and Leadership	GER-Core	3
			Total AUs	19

	Course Code	Course Title	Type	AU
Year 3 Semester 2	CV1711	Engineering Drawing and 3D Building Information Modelling	Core	1
	CV3012	Steel Design	Core	3
	CV3016	Construction Technology & Processes	Core	3
	CV4XXX	Major Prescribed Elective	Major PE	3
	CV4XXX	Major Prescribed Elective	Major PE	3
			Total AUs	13

	Course Code	Course Title	Type	AU
Year 3 Special Term	CV3915	Professional Attachment	Core	5
			Total AUs	5

	Course Code	Course Title	Type	AU
Year 4 Semester 1	CV4211	CNYSP Overseas Final Year Project	Core	8
			Total AUs	8

	Course Code	Course Title	Type	AU
Year 4 Semester 2	CV4912	Integrated Design Project	Core	3
	CV4XXX	Major Prescribed Elective	Major PE	3
	xxxxxx	Unrestricted Elective	UE	2
			Total AUs	8
		GRAND TOTAL	142	