

**AY2020-21 CURRICULUM FOR COMPUTER ENGINEERING
WITH CN YANG SCHOLARS PROGRAMME**

Last Update: 29-05-21

SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	Core	MPE	GER-Core	GER-PE	UE	Total AU
1	42	0	4	0	0	46
2	31	0	7	0	0	38
3	27	3	6	0	3	39
4	8	9	0	0	2	19
Total	108	12	17	0	5	142

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CY1001	Introductory Biology	C	3	CNYSP Courses
CY1101	Principles of Modern Chemistry	C	3	
CY1308	Physics	C	3	
CY1500	Introductory Research Methodology	C	3	
CY1601	Mathematics I	C	4	
CE1103	Introduction to Computational Thinking and Programming	C	3	
GC0001	Sustainability : Seeing Through the Haze	GER-Core	1	
			20	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
CY1007	Living with Climate Change	C	3	CNYSP Courses
CY1307	Relativity and Quantum Physics	C	3	
CY1400	CNYSP Undergraduate Research Experience	C	3	
CY1602	Mathematics II	C	4	
CE1105	Digital Logic	C	3	
CE1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3	CE1103
	Engineering Fundamentals 2	C	3	
			22	

YEAR 1 SPECIAL SEMESTER				
Course Code	Course Title	Type	AU	Pre-Requisite
CY2003	Research Attachment 3 (Making and Tinkering)	C	4	CNYSP Course
	Overseas Learning Trip			
			4	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CY2001	Research Attachment 1	C	4	CNYSP Courses
CY0001	Writing and Reasoning	GER-Core	3	
CE1106	Computer Organisation & Architecture	C	3	CE1105
CE1107	Data Structures and Algorithms	C	3	CE1103
CE2002	Object Oriented Design and Programming	C	3	CE1103
CE2006	Software Engineering	C	3	CE2002 (co)
MH1812	Discrete Mathematics	C	3	
			22	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CY0002	Ethics	GER-Core	3	CNYSP Course
CE2100	Probability and Statistics for Computing	C	3	MH1810 (CY1601)
CE2101	Algorithm Design and Analysis	C	3	CE1107
CE2003	Digital Systems Design	C	3	CE1105
CE2005	Operating Systems	C	3	CE1106, CE1107
ML0003	Kickstart your Career Success	GER-Core	1	
			16	

YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CE2107	Microprocessor System Design and Development	C	3	CE1106
CE3002	Sensors, Interfacing & Control	C	3	CE1106
CE3001	Advanced Computer Architecture	C	3	CE1106
CE3102	Signal, Systems and Transform	C	3	CE1106
CY0006	Enterprise, Innovation and Leadership	GER-Core	3	
			15	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CE3005	Computing Networks	C	3	CE1104, CE2100 (CY1601, CY1602)
CE3103	Embedded Programming	C	3	CE2107
CE3004	Multidisciplinary Design Project	C	4	Year 3 standing
XXXXXX	Unrestricted Elective 1	UE	3	
EG0001	Engineers and Society	GER-Core	3	
CE/CZ4XXX	Major PE 1	MPE	3	
			19	

YEAR 3 SPECIAL SEMESTER

Course Code	Course Title	Type	AU	Pre-Requisite
CE3126	Professional Attachment	C	5	
			5	

YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CE4211	CNYSP Overseas Final Year Project	C	8	CNYSP Course
			8	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CE/CZ4XXX	Major PE 2	MPE	3	
CE/CZ4XXX	Major PE 3	MPE	3	
CE/CZ4XXX	Major PE 4	MPE	3	
XXXXXX	Unrestricted Elective 2	UE	2	
			11	

Total AU for Graduation : **142**