

**Curriculum for CN Yang Scholars Programme
Computer Science
(For AY2018-19 intake)**

Course Type	AU
Core Courses	108
Major Prescribed Electives	12
GER-Core	17
GER-PE	0
Unrestricted Electives	5
Total	142

	Course Code	Course Title	Type	AU
Year 1 Semester 1	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
	CZ1003	Introduction to Computational Thinking	Core	3
	GC0001	Sustainability: Seeing Through the Haze	GER-Core	1
				Total AUs

	Course Code	Course Title	Type	AU
Year 1 Semester 2	CY1007	Living with Climate Change	Core	3
	CY1307	Relativity and Quantum Physics	Core	3
	CY1400	CNYSPP Undergraduate Research Experience	Core	3
	CY1602	Mathematics II	Core	4
	CZ1005	Digital Logic	Core	3
	CZ1015	Introduction to Data Science and Artificial Intelligence	GER-Core	3
	ML0003	New Career Course	GER-Core	1
				Total AUs

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

	Course Code	Course Title	Type	AU
Year 2 Semester 1	CY2001	Research Attachment 1	Core	4
	CY0001	Writing and Reasoning	GER-Core	3
	CZ1006	Computer Organisation & Architecture	Core	3
	CZ1007	Data Structures	Core	3
	CZ2003	Computer Graphics and Visualisation	Core	3
	CZ2004	Human Computer Interaction	Core	3
	MH1812	Discrete Mathematics	Core	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 2 Semester 2	CY0002	Ethics	GER-Core	3
	CZ2001	Algorithms	Core	3
	CZ2002	Object Oriented Design and Programming	Core	3
	CZ2005	Operating Systems	Core	3
	CZ2006	Software Engineering	Core	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 3 Semester 1	CZ2007	Introduction to Databases	Core	3
	CZ3001	Advanced Computer Architecture	Core	3
	CZ3002	Advanced Software Engineering	Core	3
	CZ3004	Multidisciplinary Design Project	Core	4
	CZ3006	Net Centric Computing	Core	3
	CY0006	Enterprise, Innovation and Leadership	GER-Core	3
			Total AUs	19

	Course Code	Course Title	Type	AU
Year 3 Semester 2	CE2xxx or CE3xxx	Technical Elective 1	Major PE	3
	CZ3003	Software Systems Analysis and Design	Core	3
	CZ3005	Artificial Intelligence	Core	3
	CZ3007	Compiler Techniques	Core	3
	xxxxxx	Unrestricted Elective	UE	3
	CZ0001	Engineers and Society	GER-Core	3
			Total AUs	18

	Course Code	Course Title	Type	AU
Year 3 Special Term	CZ3126	Professional Attachment	Core	5
				Total AUs

	Course Code	Course Title	Type	AU
Year 4 Semester 1	CZ4211	CNYSO Overseas Final Year Project	Core	8
				Total AUs

	Course Code	Course Title	Type	AU
Year 4 Semester 2	CZ4xxx	Major PE 1	Major PE	3
	CZ4xxx	Major PE 2	Major PE	3
	CZ4xxx	Major PE 3	Major PE	3
	xxxxxx	Unrestricted Elective	UE	2
			Total AUs	11
			GRAND TOTAL	142