



4-year BEng (Computer Science)
NTU-CN Yang Scholars Programme
Applicable to students matriculated in AY2020

Overview of AUs requirement

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
	CZ1103	Introduction to Computational Thinking and Programming	Core	3
	GC0001	Sustainability: Seeing Through the Haze	GER-Core	1
				Total AUs

	Course Code	Course Title	Type	AU
Year 1 Semester 2	CY1007	Climate Change	Core	3
	CY1307	Relativity and Quantum Physics	Core	3
	CY1400	CNYSP Undergraduate Research Experience	Core	3
	CY1602	Mathematics II	Core	4
	CZ1105	Digital Logic (Engineering Fundamentals 1)	Core	3
	CZ1115	Introduction to Data Science and Artificial Intelligence	GER-Core	3
		Engineering Fundamentals 2	Core	3
				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
	CY0002	Ethics	GER-Core	3
	CZ1106	Computer Organisation & Architecture	Core	3
	CZ1107	Data Structures and Algorithms	Core	3
	CZ2101	Algorithm Design and Analysis	Core	3
	CZ2102	Object Oriented Design & Programming	Core	3
	MH1812	Discrete Mathematics	Core	3
Total AUs				22

	Course Code	Course Title	Type	AU
Year 2 Semester 2	CY0001	Writing Across the Disciplines	GER-Core	3
	CZ2100	Probability and Statistics for Computing	Core	3
	CZ2105	Operating Systems	Core	3
	CZ2106	Software Engineering	Core	3
	CZ2107	Introduction to Databases	Core	3
	ML0003	Kickstart your Career Success	GER-Core	1
	Total AUs			

	Course Code	Course Title	Type	AU
Year 3 Semester 1	CZ2179	Multidisciplinary Design Project	Core	3
	CZ2108	Computing Networks	Core	3
	CZ3100	Artificial Intelligence	Core	3
	CZ3110	Computer Security	Core	4
	CY0006	Enterprise, Innovation and Leadership	GER-Core	3
	Total AUs			

	Course Code	Course Title	Type	AU
Year 3 Semester 2	CZ3120	Database System Principles	Core	3
	CZ3140	Advanced Software Engineering	Core	3
	CZ3150	Advanced Computer Architecture	Core	3
	xxxxxx	Unrestricted Elective 1	UE	3
	EG0001	Engineers and Society	GER-Core	3
	CZ4xxx	Major PE 1	Major PE	3
	Total AUs			

	Course Code	Course Title	Type	AU
Year 3 Special Term	CE3126	Professional Attachment	Core	5
Total AUs				5



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

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

			GRAND TOTAL	142
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