AY2024-25 AND LATER COHORTS
Curriculum for Bachelor of Computing (Computer Science)
With a Second Major in Entrepreneurship

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major		ENT	ICC		BDE	Total AU
	Core	MPE		Common - Core	Foundational - Core		
1	19	0	6	9	3	0	37
2	21	0	6	8	0	0	35
3	6	6	6	0	12	0	30
4	9	21	7	0	0	0	37
Total	55	27	25	17	15	0	139

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite
SC1003	Introduction to Computational Thinking & Programming	F-Core	3	Nil
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-requisite)
MH1812	Discrete Mathematics	Core	3	Nil
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil
CC0005	Healthy Living & Wellbeing	C-Core	3	Nil
HW0001	Introduction to Academic Communication	-	-	For student who failed QET
HW0002	Calculus	-	-	For student not done Calculus
ET5211	Entrepreneurial Mindset & Technology Innovation	Core	3	Nil
			18	

YEAR 1 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite
SC1005	Digital Logic	Core	3	Nil
SC1006	Computer Organisation & Architecture	Core	3	SC1005 (co-requisite)
SC1007	Data Structures & Algorithms	Core	3	SC1003
SC1008	C and C++ Programming	Core	3	SC1003
CC0001	Inquiry & Communication in an Interdisciplinary World	C-Core	2	Nil
CC0002	Navigating the Digital World	C-Core	2	Nil
ET5213	Managing New Ventures	Core	3	Nil
			19	

Year 1 Total AU   37

YEAR 2 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-requisite
SC2000	Probability & Statistics for Computing	Core	3	Nil
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2002	Object Oriented Design & Programming	Core	3	SC1003 OR SC1007
SC2005	Operating Systems	Core	3	SC1006 & SC1007
CC0007	Science & Technology for Humanity	C-Core	3	Nil
ET5212	Entrepreneurial Ecosystems	Core	3	Nil
			18	

YEAR 2 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-requisite
SC2006	Software Engineering	Core	3	SC2002 (co-requisite)
SC2008	Computer Network	Core	3	SC2000 & SC1004
SC2207	Introduction to Databases	Core	3	SC2001 (co-requisite)
CC0006	Sustainability: Society, Economy & Environment	C-Core	3	Nil
ML0004	Career & Innovative Enterprise for the Future World	C-Core	2	Nil
ET5214	Financing Entrepreneurial Ventures	Core	3	ET5213
			17	

Year 2 Total AU   35

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC2203	Automata. Computability and Complexity	Core	3	SC2001 (co-requisite)
SC2079	Multidisciplinary Design Project	Core	4	Year 3 Standing
HW0288	Engineering Communication	F-Core	2	CC0001 & Year 3 standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
ET-E1	Entrepreneurship Elective 1	Core	3	Refer to syllabus
ET-E2	Entrepreneurship Elective 2	Core	3	Refer to syllabus
			21	

YEAR 3 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC3920	Professional Internship (Graded)	F-Core	10	Year 3 Standing
			10	

	Year 3 Total AU	**31**

YEAR 4 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite
SC4079	Final Year Project (Part 1)	Core	4	Year 4 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC3xxx/SC4xxx	Major Prescribe Elective (Choose within SC3xxx/SC4xxx)	MPE	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
ET-E3	Entrepreneurship Elective 3	Core	3	Refer to syllabus
			19	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite
SC4079	Final Year Project (Part 2)	Core	4	Year 4 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
ET-E4	Entrepreneurship Elective 4	Core	4	Refer to syllabus
			17	

	Year 4 Total AU	**36**

MPE Structure of Computer Science (U24 and after)			
Course Code	Type	AU	Remarks
SC3xxx/SC4xxx	MPE-1	3	Any MPE
SC3xxx/SC4xxx	MPE-2	3	Any MPE
SC3xxx/SC4xxx	MPE-3	3	Any MPE
SC3xxx/SC4xxx	MPE-4	3	Any MPE
SC3xxx/SC4xxx	MPE-5	3	Any MPE
SC4xxx	MPE-6	3	MPE (Choose within SC4xxx)
SC4xxx	MPE-7	3	MPE (Choose within SC4xxx)
SC4xxx	MPE-8	3	MPE (Choose within SC4xxx)
SC4xxx	MPE-9	3	MPE (Choose within SC4xxx)
	Total	27	
Please refer the CSC MPE Courses and Specialization on CCDS website.			

Entrepreneurship Course Lising				
Course Code	Course Title	Type	AU	Pre-requisite
ET5211	Entrepreneurial Mindset & Technology Innovation	Core	3	Nil
ET5213	Managing New Ventures	Core	3	Nil
ET5212	Entrepreneurial Ecosystems	Core	3	Nil
ET5214	Financing Entrepreneurial Ventures	Core	3	ET5213
ET-E1	Entrepreneurship Elective 1	Core	3	Refer to syllabus
ET-E2	Entrepreneurship Elective 2	Core	3	Refer to syllabus
ET-E3	Entrepreneurship Elective 3	Core	3	Refer to syllabus
ET-E4	Entrepreneurship Elective 4	Core	4	Refer to syllabus
Please refer to the Second Major in Entrepreneurship (SMiE) webiste for Entrepreneurship Elective Listing: https://www.ntu.edu.sg/ntupreneur/second-major-in-entrepreneurship				