AY2025 2026 AND LATER COHORTS

Curriculum for Bachelor of Computing (Computer Science)

With a Second Major in Business

International Trading Programme (ITP) track

PI option: 20-WEEK Professional Internship

	SUMMARY OF ACADEMIC UNIT REQUIREMENT							
	Ma	ijor		ICC		ICC		
Year of Study	Core	MPE	ITP	Common - Core	Professional Series	Care, Serve & Learn	BDE	Total AU
1	19	0	6	8	3	0	0	36
2	21	0	11	6	0	3	0	41
3	7	6	6	0	12	0	0	31
4	0	29	8	0	1	0	0	38
Total	47	35	31	14	16	3	0	146

Recommended Course Schedule

	YEAR 1 SEMESTER 1							
Course Code	Course Title	Туре	AU	Pre-requisite				
SC1003	Introduction to Computational Thinking & Programming	Professional Series	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				
CC0015	Health & Wellbeing	C-Core	2	Nil				
HW0001	Introduction to Academic Communication	-	-	For student failed QET				
HW0002	Calculus	-	-	For student not done Calculus				
AB1201	Financial Management	ITP	3	Nil				
			17					

YEAR 1 SEMESTER 2							
Course Code	Course Title	Туре	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			
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	C-Core	2	Nil			
AB1501	Marketing	ITP	3	Nil			
			19				

Year 1 Total AU 36

	YEAR 2 SEMESTER 1							
Course Code	Course Title	Туре	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				
AD1102	Financial Accounting	ITP	3	Nil				
BF2227	Commodity Markets	ITP	3	Nil				
CSL	CSL (service learning course)- Part 1	CSL	-	(Continue in Semester 2)				
			21					

YEAR 2 SEMESTER 2							
Course Code	Course Title	Туре	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			
BE1402	Business Operations & Process	ITP	3	Nil			
BF3214	Commodities Trading	ITP	2	Nil			
CSL	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)			
			20				

Year 2 Total AU 41

. Classification: Restricted

YEAR 3 SEMESTER 1							
Course Code	Course Title	Туре	AU	Pre-requisite			
SC2203	Automata. Computability and Complexity	Core	3	SC2001 (co-requisite)			
SC3099	Capstone	Core	4	Year 3 Standing			
HW0288	Engineering Communication	Professional Series	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			
AD2102	Management Accounting	ITP	3	AD1102			
BF2226	Trade Incoterms & Ship Chartering	ITP	3	Nil			
			21				

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

Year 3 Total AU 31

	YEAR 4 SEMESTER 1						
Course Code	Course Title	Туре	AU	Pre-requisite			
SC4079	Final Year Project (Part 1)	MPE	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			
BF2302	International Tax & Trading Law	ITP	2	Nil			
BF3226	Strategic Management in Commodity Markets	ITP	2	Nil			
ML0015	Profession Preparation	Professional Series	1	Nil			
			21				

	YEAR 4 SEMESTER 2							
Course Code	Course Title	Туре	AU	Pre-requisite				
SC4079	Final Year Project (Part 2)	MPE	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				
BF3212	Trade, Structured & Supply Chain Finance	ITP	2	BF2226				
BF3213	Enterprise Risk Management in Commodity Markets	ITP	2	Nil				
			17					

Year 4 Total AU 38

Note:

- 1. Students are required to complete 9 Major Prescribed Electives (SC3xxx or SC4xxx), including at least 4 at the SC4xxx level.
- 2. Students may choose to complete a **Final Year Project (FYP)** or take **3 additional MPEs** in its place.
- 3. In order to graduate with **Highest Distinction**, students must complete a **Final Year Project**.

MPE Structure of Computer Science (U24 and after)							
Course Code	Type AU Remarks						
SC3000	MPE-1	3	MPE (Complusory)				
SC3010	MPE-2	3	MPE (Complusory)				
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 to the CSC MPE Courses and Specialization on CCDS website.							

Classification: Restricted

AY2025 2026 AND LATER COHORTS

Curriculum for Bachelor of Computing (Computer Science)

With a Second Major in Business International Trading Programme (ITP) track

PA option: 10-WEEK Professional Attachment

	SUMMARY OF ACADEMIC UNIT REQUIREMENT									
	Major	Major ICC			ICC		ICC			
Year of Study	Core	MPE	ITP	Common - Core	Professional Series	Care, Serve & Learn	BDE	Total AU		
1	19	0	6	8	3	0	0	36		
2	21	0	11	6	0	3	0	41		
3	7	18	6	0	7	0	3	41		
4	0	17	8	0	1	0	2	28		
Total	47	35	31	14	11	3	5	146		

Recommended Course Schedule

	YEAR 1 SEMESTER 1							
Course Code	Course Title	Туре	AU	Pre-requisite				
SC1003	Introduction to Computational Thinking & Programming	Professional Series	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				
CC0015	Health & Wellbeing	C-Core	2	Nil				
HW0001	Introduction to Academic Communication	-	-	For student failed QET				
HW0002	Calculus	-	1	For student not done Calculus				
AB1201	Financial Management	ITP	3	Nil				
			17					

YEAR 1 SEMESTER 2					
Course Code	Course Title	Туре	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	
AB1501	Marketing	ITP	3	Nil	
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	C-Core	2	Nil	
			19		

Year 1 Total AU 36

	YEAR 2 SEMESTER 1					
Course Code	Course Title	Туре	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		
AD1102	Financial Accounting	ITP	3	Nil		
BF2227	Commodity Markets	ITP	3	Nil		
CSL	CSL (service learning course)- Part 1	CSL	1	(Continue in Semester 2)		
			21			

	YEAR 2 SEMESTER 2					
Course Code	Course Title	Туре	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		
BE1402	Business Operations & Process	ITP	3	Nil		
BF3214	Commodities Trading	ITP	2	Nil		
CSL	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)		
			20			

Year 2 Total AU 41

Classification: Restricted

YEAR 3 SEMESTER 1					
Course Code	Course Title	Туре	AU	Pre-requisite	
SC2203	Automata. Computability and Complexity	Core	3	SC2001 (co-requisite)	
SC3099	Capstone	Core	4	Year 3 Standing	
HW0288	Engineering Communication	Professional Series	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	
AD2102	Management Accounting	ITP	3	AD1102	
BF2226	Trade Incoterms & Ship Chartering	ITP	3	Nil	
			21		

	YEAR 3 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-requisite
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
	Broadening and Deepening Elective	BDE	2	Refer to Class Schedule
			14	
	YEAR 3 SPECIAL SEMESTER			
Course Code	Course Title	Туре	AU	Pre-requisite
SC3026	Professional Attachment	Professional Series	5	Year 3 Standing
			5	

<u>40</u> Year 3 Total AU

	YEAR 4 SEMESTER 1				
Course Code	Course Title	Туре	AU	Pre-requisite	
SC4079	Final Year Project (Part 1)	MPE	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	
BF2302	International Tax & Trading Law	ITP	2	Nil	
BF3226	Strategic Management in Commodity Markets	ITP	2	Nil	
ML0015	Profession Preparation	Professional Series	1	Nil	
			15		

	YEAR 4 SEMESTER 2			
Course Code	Course Title	Туре	AU	Pre-requisite
SC4079	Final Year Project (Part 2)	MPE	4	Year 4 Standing
SC4xxx	Major Prescribe Elective (Choose within SC4xxx)	MPE	3	Year 3 Standing
BF3212	Trade, Structured & Supply Chain Finance	ITP	2	BF2226
BF3213	Enterprise Risk Management in Commodity Markets	ITP	2	Nil
	Broadening and Deepening Elective	BDE	2	Refer to Class Schedule
			13	

Year 4 Total AU 28

Note:

- 1. Students are required to complete **9 Major Prescribed Electives** (SC3xxx or SC4xxx), including **at least 4 at the SC4xxx level**.
- 2. Students may choose to complete a **Final Year Project (FYP)** or take **3 additional MPEs** in its place.
- 3. In order to graduate with **Highest Distinction**, students must complete a **Final Year Project**.

MPE Structure of Computer Science (U24 and after)					
Course Code	Туре	AU	Remarks		
SC3000	MPE-1	3	MPE (Complusory)		
SC3010	MPE-2	3	MPE (Complusory)		
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			
Ple	ease refer to the CSC	C MPE Courses and	Specialization on CCDS website.		

	Business Course List	ting				
Course Code	de Course Title Type AU					
AB1201	Financial Management	Business	3	Nil		
AB1501	Marketing	Business	3	Nil		
AD1102	Financial Accounting	Business	3	Nil		
AB1601	Organisational Behaviour and Design	Business	3	Nil		
AD2102	Management Accounting	Business	3	AD1102		
AB1301	Business Law	Business	3	Nil		
BF2219	Investments	Business	3	AB1201		
BE2602	Management Principles, Skills & Competencies	Business	3	AB1601		
BM2509	Consumer Insights	Business	3	AB1501		
BE1402	Business Operations & Process	Business	3	Nil		
	Business Course Listing	g (ITP)				
Course Code	Course Title	Туре	AU	Pre-requisite		
BF2226	Trade Incoterms & Ship Chartering	ITP	3	Nil		
BF2227	Commodity Markets	ITP	3	Nil		
BF3214	Commodities Trading	ITP	2	Nil		
BF2302	International Tax & Trading Law	ITP	2	Nil		
BF3226	Strategic Management in Commodity Markets	ITP	2	Nil		
BF3212	Trade, Structured & Supply Chain Finance	ITP	2	BF2226		
DIOZIZ		ITP	2	Nil		

https://www.ntu.edu.sg/engineering/admissions/ug/allprogrammes/highlights/business