AY2025 2026 AND LATER COHORTS

Curriculum for Bachelor of Computing (Computer Science)

With a Second Major in Business

Mainstream Track

PI option : 20-WEEK Professional Internship

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major		Business	ICC			BDE	Total AU
	Core	MPE		Common - Core	Professional Series	Care, Serve & Learn		
1	19	0	6	8	3	0	0	36
2	21	0	6	6	0	3	0	36
3	7	6	6	0	12	0	0	31
4	0	29	12	0	1	0	0	42
Total	**47**	**35**	**30**	**14**	**16**	**3**	**0**	**145**

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	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
AB1201	Financial Management	Business	3	Nil
HW0001	Introduction to Academic Communication	-	-	For student failed QET
HW0002	Calculus	-	-	For student not done Calculus
			17	

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
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	C-Core	2	Nil
AB1501	Marketing	Business	3	Nil
			19	

Year 1 Total AU **36**

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
AD1102	Financial Accounting	Business	3	Nil
CSL	CSL (service learning course)- Part 1	CSL	-	(Continue in Semester 2)
			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
AB1601	Organisational Behaviour and Design	Business	3	Nil
CSL	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)
			18	

Year 2 Total AU **36**

YEAR 3 SEMESTER 1				
Course Code	Course Title	Type	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	Business	3	AD1102
AB1301	Business Law	Business	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	Type	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
BF2219	Investments	Business	3	AB1201
BE2602	Management Principles, Skills & Competencies	Business	3	AB1601
ML0015	Profession Preparation	Professional Series	1	Nil
			23	

YEAR 4 SEMESTER 2				
Course Code	Course Title	Type	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
BM2509	Consumer Insights	Business	3	AB1501
BE1402	Business Operations & Process	Business	3	Nil
			19	
		Year 4 Total AU	42	

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 (Compulsory)
SC3010	MPE-2	3	MPE (Compulsory)
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.			

AY2025 2026 AND LATER COHORTS
Curriculum for Bachelor of Computing (Computer Science)
With a Second Major in Business
Mainstream Track

PA option : 10-WEEK Professional Attachment

SUMMARY OF ACADEMIC UNIT REQUIREMENT

Year of Study	Major		Business	ICC			BDE	Total AU
	Core	MPE		Common - Core	Professional Series	Care, Serve & Learn		
1	19	0	6	8	3	0	0	36
2	21	0	6	6	0	3	0	36
3	7	18	9	0	7	0	2	43
4	0	17	9	0	1	0	3	30
Total	**47**	**35**	**30**	**14**	**11**	**3**	**5**	**145**

Recommended Course Schedule

YEAR 1 SEMESTER 1

Course Code	Course Title	Type	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
AB1201	Financial Management	Business	3	Nil
HW0001	Introduction to Academic Communication	-	-	For student failed QET
HW0002	Calculus	-	-	For student not done Calculus
			17	

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
AB1501	Marketing	Business	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	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
AD1102	Financial Accounting	Business	3	Nil
CSL	CSL (service learning course)- Part 1	CSL	-	(Continue in Semester 2)
			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
AB1601	Organisational Behaviour and Design	Business	3	Nil
CSL	CSL (service learning course)- Part 2	CSL	3	(Continue from Semester 1)
			18	

Year 2 Total AU **36**

YEAR 3 SEMESTER 1				
Course Code	**Course Title**	**Type**	**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	Business	3	AD1102
AB1301	Business Law	Business	3	Nil
			21	

YEAR 3 SEMESTER 2				
Course Code	**Course Title**	**Type**	**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
BF2219	Investments	Business	3	AB1201
	Broadening and Deepening Elective	BDE	2	Refer to Class Schedule
			17	

YEAR 3 SPECIAL SEMESTER				
Course Code	**Course Title**	**Type**	**AU**	**Pre-requisite**
SC3026	Professional Attachment	Professional Series	5	Year 3 Standing
			5	
	Year 3 Total AU		**43**	

YEAR 4 SEMESTER 1				
Course Code	**Course Title**	**Type**	**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
BE2602	Management Principles,Skills &Competencies	Business	3	AB1601
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
ML0015	Profession Preparation	Professional Series	1	Nil
			17	

YEAR 4 SEMESTER 2				
Course Code	**Course Title**	**Type**	**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
BM2509	Consumer Insights	Business	3	AB1501
BE1402	Business Operations & Process	Business	3	Nil
			13	
	Year 4 Total AU		**30**	

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.			

Business Course Listing				
Course Code	**Course Title**	**Type**	**AU**	**Pre-requisite**
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 (ITP)				
Course Code	**Course Title**	**Type**	**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
BF3213	Enterprise Risk Management in Commodity Markets	ITP	2	Nil
Please refer to the Second Major in Business website for Course Listing: https://www.ntu.edu.sg/engineering/admissions/ug/allprogrammes/highlights/business				