List of Courses for the CGPA Computation of BEng (Computer Engineering) under the Double Degree Programme in Business and Computer Engineering (BCE) (AY2021 and later cohorts)

	BEng (Computer Engineering) AU Load				
		SC1003	Introduction to Computational Thinking & Programming	3	
		SC1004	Linear Algebra for Computing	3	
		SC1005	Digital Logic	3	
		SC1006	Computer Organisation and Architecture	3	
		SC1007	Data Structures & Algorithms	3	
		SC1013	Physics for Computing	2	
		EG1001	Engineers in Society	2	
		MH1810	Mathematics I	3	
		MH1812	Discrete Mathematics	3	
	Core	SC2000	Probability and Statistics for Computing	3	
		SC2001	Algorithm Design and Analysis	3	
		SC2002	Object Oriented Design and Programming	3	
_		SC2103	Digital System Design	3	
Discipline		SC2104	Sensors, Interfacing & Digital Control	3	
Requirement		SC2005	Operating Systems	3	
		SC2006	Software Engineering	3	
		SC2107	Microprocessor System Design & Development	3	
		SC2008	Computer Networks	3	
		SC2079	Multidisciplinary Design Project	4	
		SC3102	Signal, Systems and Transform	3	
		SC3103	Embedded Programming	3	
		SC4079	Final Year Project	8	
				(70)	
	Major Prescribed Electives (MPE)	SC4xxx	Major Prescribe Elective (MPE-a)	3	
		SC4xxx	Major Prescribe Elective (MPE-b)	3	
		SC4xxx	Major Prescribe Elective (MPE-c)	3	
		SC4xxx	Major Prescribe Elective (MPE-d) ¹	3	
				(12)	

			Grand Total	137/139 ⁺
	& Deepening Electives (BDE)			(24)4
		AB1501	Marketing ⁴	3
		HE5091	Principles of Economics ⁴	3
		BC2407	Analytics II: Advanced Predictive Analytics ⁴	4
	Broadening	BC2406	Analytics I: Visual and Predictive Analytics ⁴	4
		BC2402	Designing & Developing Databases ⁴	4
		BXxxxx	BA/CE Integration ⁴	3
		BXxxxx	BA/CE Integration ⁴	3
				(14/16)
Interdisciplinary Collaborative Core (ICC)	Foundational Core (FC)	SC3079	Professional Internship (10AU) ³	10/9 ³
		SC1015	Introduction to Data Science & Al	3
		HW0288	Engineering Communication ²	2/4 ²
	Common Core (CC)			(17)
		CC0007	Science & Technology for Humanity	3
		CC0006	Sustainability: Human Society Economic & Environment	3
		CC0005	Healthy Living & Wellbeing	3
		ML0004	Career & Entrepreneurial Development for the Future World	2
		CC0003	Ethics & Civics in a Multi-Cultural World	2
		CC0002	Navigating the Digital World	2
		CC0001	Inquiry and Communication in an Interdisciplinary World	2

⁺Total AU is 4AU more than the proposed BEng(CE) single degree programme under NTU ICC due to fulfillments of courses from BUS programme as indicated below.

¹One SC4xxx MPE (3AU) and 6AU of BDE are jointly fulfilled by:

- Three BUS/CE Integration PEs (9AU)

BUS/CE Integration PE*# (BXxxxx-PE, 3AU each) *Students to choose any 3 courses below #One of these BXxxxx-PE courses will be counted as MPE					
•	BT2404	Service Operations Management	3		
•	BC2409	BC2409 Supply Chain Analytics	3		
•	BC2411	Prescriptive Analytics: From Data to Decision	3		
•	BC3410	BC3410 Financial Service Processes and Analytics	3		
•	BC3411	Lean Operations & Analytics	3		
•	BC3412	Business Analytics Consulting	3		
•	BC3415	BC3415 AI in Accounting and Finance	3		

²HW0288 Engineering Communication II (2AU) is fulfilled by:

- AB0602 Communication Management Strategy (4AU)

- AB1003 Professional Attachment (5AU)
- AB2008 Career Readiness (1AU)
- AB3602 Strategic Management (3AU)

- two BUS/CE Integration PEs and five BA cores (24AU) – refer to table above

³SC3079 Professional Internship (10AU) is jointly fulfilled by:

⁴21AU of BDEs are jointly fulfilled by:

List of Courses for the CGPA Computation of BBus (Business Analytics) under the Double Degree Programme in Business and Computer Engineering (BCE)

(AY2021 and later cohorts)

B. Bus (Business Analytics)					AU Load
		AD1102	Financial Accounting		3
		AB1201	Financial Management		3
		AB1301	Business Law		3
		AB1202	Statistics & Analysis		3
		AB1501	Marketing		3
		AB1601	Organisation Behaviour and Design		3
		HE5091	Principles of Economics		3
		AD2102	Management Accounting		3
		BC2402	Designing & Developing Databases		4
	Core	BC2406	Analytics I: Visual and Predictive Analytic	CS	4
Distingling		BC2407	Analytics II: Advanced Predictive Analyti	cs	4
Discipline Requirement		AB3602	Strategic Management		3
Requirement		AB1403	Intermediate Excel (1AU)	Jointly fulfil by	
		BE1402	Business Operations & Process (3AU)	SC4079 Final	7/8 ¹
		BE2602	Management Principles, Skills & Competencies (3AU)	Year Project (8AUs)	//6
					(46/47)
	Major Prescribed Electives (MPE)	BXxxxx	BA/CE Integration 1		3
		BXxxxx	BA/CE Integration 2		3
		BXxxxx	BA/CE Integration 3		3
					(9)
	Common Core (CC)	CC0001	Inquiry and Communication in an Interd	sciplinary World	2
		CC0002	Navigating the Digital World		2
		CC0003	Ethics & Civics in a Multi-Cultural World		2
		ML0004	Career & Entrepreneurial Development for the Future World		2
		CC0005	Healthy Living & Mental Wellbeing		3
Interdisciplinary Collaborative Core		CC0006	Sustainability: Human Society Economic & Environment		3
		CC0007	Science & Technology for Humanity		3
					(17)
	Foundational Core (FC)	AB2008	Careers II		1
		AB0602	Communication Management Strategies	5	4
		AB0403	Decision Making with Programming & Analytics ²		3
		AB1003	Professional Attachment		5
					(13)

Broadening	SC2008	Computer Networks	3
&	SC3102	Signal, Systems and Transform	3
Deepening	SC3103	Embedded Programming	3
Electives	SC4xxx	Major Prescribe Elective (MPE-a)	3
(BDE)	SC4xxx	Major Prescribe Elective (MPE-b)	3
	SC4xxx	Major Prescribe Elective (MPE-c)	3
			18
		Grand Total	103/104^

[^] Total AU is 1AU more than the proposed BBus(BA) single degree programme under NTU ICC (Ref: CoB (NBS)-R/00126/21) due to fulfillments of courses from CE programme as indicated below.

² AB0403 Decision Making with Programming & Analytics (3AU) is fulfilled by: SC1015 Introduction to Data Science and Artificial Intelligence (3AU)

	BUS/CE Integration PE* (BXxxxx-PE, 3AU each) *Students to choose any 3 courses below				
•	BT2404	Service Operations Management	3		
•	BC2409	Supply Chain Analytics	3		
•	BC2411	Prescriptive Analytics: From Data to Decision	3		
•	BC3410	Financial Service Processes and Analytics	3		
•	BC3411	Lean Operations & Analytics	3		
•	BC3412	Business Analytics Consulting	3		
•	BC3415	Al in Accounting and Finance	3		

¹ AB1403(1AU), BE1402(3AU) and BE2602 (3AU) are jointly fulfilled by: SC4079 Final Year Project (8AU)