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

BEng (Computer Engineering)				AU Load
Discipline Requirement	Core	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
		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
		SC2104	Sensors, Interfacing & Digital Control	3
		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 PE	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)

Interdisciplinary Collaborative Core (ICC)	Common Core (CC)	CC0001	Inquiry and Communication in an Interdisciplinary 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 & Wellbeing	3
		CC0006	Sustainability: Human Society Economic & Environment	3
		CC0007	Science & Technology for Humanity	3
				(17)
	Foundational Core (FC)	HW0288	Engineering Communication II[2]	2/4[2]
		SC1015	Introduction to Data Science & AI	3
		SC3079	Professional Internship[3]	10
				(15/17)
	Broadening & Deepening Electives	Bxxxxx	BA/CE Integration[4]	3
		Bxxxxx	BA/CE Integration[4]	3
		BC2402	Designing & Developing Databases[5]	3
		BC2406	Analytics I: Visual and Predictive Analytics[5]	3/4
		BC2407	Analytics II: Advanced Predictive Analytics[5]	3/4
		HE5091	Principles of Economics[5]	3
		AB1501	Marketing[5]	3
				(21/23)
Grand Total				**135/139[+]**

[+]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.

[1]One SC4xxx MPE (3AU) and 6AU of BDE are jointly fulfilled by
- three BA/CE Integration PEs (9AU)

BA/CE Integration PE*[#] (BC-PE, 3AU each) *Students to choose any 3 courses below (as of July 2021) [#]One of these BC-PE courses will be counted as Major PE		
• BT2404	Service Operations Management	3
• BC2409	BC2409 Supply Chain Analytics	3
• BC3410	BC3410 Financial Service Processes and Analytics	3
• BC3411	Lean Operations & Analytics	3
• BC3412	Business Analytics Consulting	3
• BC3414	BC3414 Decision Modelling & Analytics	3
• BC3415	BC3415 AI in Accounting and Finance	3

[2]HW0288 Engineering Communication II (2AU) is fulfilled by:
- AB0602 Communication Management Strategy (4AU)

[3]SC3079 Professional Internship (10AU) is jointly fulfilled by
- AB1003 Professional Attachment (5AU)
- AB2008 Career Readiness (1AU)
- AB3602 Strategic Management (4AU)

[4]21AU of BDEs are jointly fulfilled by
- two BA/CE Integration PEs and five BA cores (23AU)

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

B. Bus (Business Analytics)				AU Load
Discipline Requirement	Core	AD1101	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
		AD2101	Management Accounting	3
		BC2402	Designing & Developing Databases	3
		BC2406	Analytics I: Visual and Predictive Analytics	4
		BC2407	Analytics II: Advanced Predictive Analytics	4
		AB3601	Strategic Management	4
		AB1403	Intermediate Excel (1AU)	Jointly fulfil by SC4079 Final Year Project (8AUs)	7/8[1]
		BE1402	Business Operations & Process (3AU		
		BE2602	Management Principles, Skills & Competencies (3AU)		
					(46/47)
	MPE	Bxxxxx	BA/CE Integration 1	3
		Bxxxxx	BA/CE Integration 2	3
		Bxxxxx	BA/CE Integration 3	3
				(9)
Interdisciplinary Collaborative Core	Common Core (CC)	CC0001	Inquiry and Communication in an Interdisciplinary 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
		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	4
		AB0403	Decision Making with Programming & Analytics[2]	3
		AB1003	Professional Attachment	5
				(13)

	SC2008	Computer Networks	3
Broadening & Deepening Electives	SC3102	Signal, Systems and Transform	3
	SC3103	Embedded Programming	3
	SC4xxx	Major Prescribe Elective (MPE-a)	3
	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.

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

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

BA/CE Integration PE*[#] (BC-PE, 3AU each)		
*Students to choose any 3 courses below (as of July 2021)		
• BT2404	Service Operations Management	3
• BC2409	BC2409 Supply Chain Analytics	3
• BC3410	BC3410 Financial Service Processes and Analytics	3
• BC3411	Lean Operations & Analytics	3
• BC3412	Business Analytics Consulting	3
• BC3414	BC3414 Decision Modelling & Analytics	3
• BC3415	BC3415 AI in Accounting and Finance	3