

List of Courses for the CGPA Computation of **BEng (Computer Science)
under the Double Degree Programme in Business and Computing (BCG)**

BEng (Computer Science)				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	
		SC2005	Operating Systems	3	
		SC2006	Software Engineering	3	
		SC2207	Introduction to Databases ¹	3/4 ¹	
		SC2008	Computer Networks	3	
		SC2079	Multidisciplinary Design Project	4	
		SC4079	Final Year Project	8	
					(58/59)
	MPE	SC3000	Artificial Intelligence (MPE1-a)	3	
		SC3010	Computer Security (MPE1-b)	3	
		SC3xxx	Major Prescribe Elective (MPE1-c)	3	
		SC3xxx	Major Prescribe Elective (MPE1-d)	3	
		SC4xxx	Major Prescribe Elective (MPE2-a)	3	
SC4xxx		Major Prescribe Elective (MPE2-b)	3		
SC4xxx		Major Prescribe Elective (MPE2-c)	3		
SC4xxx		Major Prescribe Elective (MPE2-d)	3		
				(24)	

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 & 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	Business/CS Integration 1 ⁴	3
		BXxxxx	Business/CS Integration 2 ⁴	3
		BXxxxx	Business/CS Integration 3 ⁴	3
BC2406		Analytics I: Visual and Predictive Analytics ⁴	3/4	
BC2407		Analytics II: Advanced Predictive Analytics ⁴	3/4	
HE5091		Principles of Economics ⁴	3	
AB1501		Marketing ⁴	3	
		(21/23)		
Grand Total			135/140[^]	

[^]Total AU is 5AU more than the proposed BEng(CS) single degree programme under NTU ICC due to fulfillments of courses from BUS programme as indicated below.

¹ SC2207 Introduction to Databases (3AU) is fulfilled by:

- BC2402 Designing & Developing Databases (4AU)

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

- three BA/CS Integration PEs and four BA cores (23AU)

BA/CS 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

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

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)	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/CSC Integration 1	3
	Bxxxxx		BA/CSC Integration 2	3	
	Bxxxxx		BA/CSC 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)	

Broadening & Deepening Electives	SC3xxx	Major Prescribe Elective (MPE1-c)	3
	SC3xxx	Major Prescribe Elective (MPE1-d)	3
	SC4xxx	Major Prescribe Elective (MPE2-a)	3
	SC4xxx	Major Prescribe Elective (MPE2-b)	3
	SC4xxx	Major Prescribe Elective (MPE2-c)	3
	SC4xxx	Major Prescribe Elective (MPE2-d)	3
			18
Grand Total			103/104[^]

[^]Total AU is 1AU more than the proposed BBus(BA) single degree programme under NTU ICC due to fulfillments of courses from CSC 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/CSC 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