NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

School of Computer Science and Engineering

List of courses that contribute towards the

BEng (Computer Science) CGPA computation under the
Business and BEng (CS) Double Degree Programme (BCG)

Applicable to Students Admitted from AY20/21 onwards

		BEng (CS)	AU Load
Discipline Requirements	Core	MH1810 Mathematics I	3
		MH1812 Discrete Mathematics	3
		CZ1103 Introduction to Computational Thinking & Programming	3
		CZ1104 Linear Algebra for Computing	3
		CZ1105 Digital Logic	3
		CZ1106 Computer Organisation and Architecture	3
		CZ1107 Data Structures and Algorithms	3
		CZ1113 Physics for Computing	2
		xxxxxx Engineering Fundamentals 2	3
		CZ2100 Probability and Statistics for Computing	3
		CZ2101 Algorithms Design and Analysis	3
		CZ2002 Object Oriented Design and Programming	3
		CZ2005 Operating Systems	3
		CZ2006 Software Engineering	3
		CZ2007 Introduction to Databases [1]	3
		CZ2008 Computer Networks	3
		CZ3004 Multidisciplinary Design Project	4
		CZ3005 Artificial Intelligence	3
		CZ4062 Computer Security	3
		CZ4031 Database System Principles	3
		CZ3002 Advanced Software Engineering	3
		CZ3001 Advanced Computer Architecture	3
		CZ3179 Professional Internship [2]	11
		CZ4079 Final Year Project	8
			(85)
	Major PE	CZ4xxx Technical Elective 1	3
		CZ4xxx Technical Elective 2	3
		CZ4xxx Technical Elective 3	3
		BCxxxx Business/IT Integration 1	4
		BCxxxx Business/IT Integration 2	4
		BCxxxx Business/IT Integration 3	4
		(Choose best 3 BCxxxx to be included in the CGPA except **BC2402, BC2406 and BC2407**)	
			(21)

General Education Requirements (GER)	Core	EG0001 Engineers & Society	3
		GC0001 Sustainability: Seeing Through The Haze	1
		HY0001 Ethics & Moral Reasoning	1
		ET0001 Enterprise & Innovation	1
		HW0188 Effective Communication [3]	2
		HW0288 Engineering Communication & ML0003 by MLCPS [4]	4
		CZ1115 Introduction to Data Science and Artificial Intelligence	3
			(15)
	PE	**AB1201 Financial Management** (BM)	3
		HE5091 Principles of Economics (LA)	3
		Science & Technology (STS)	3
			(9)
	UE	Unrestricted Electives	6
		Unrestricted Electives *(To choose the best 6 AUs from all ABxxxx, ADxxxx, except AB0601, AB0602, AB1301, AB1001, AB1201, AB1002, AB1003, AB3601. Note BCxxxx are not to be included in the basket of choices)*	6
			(12)
Grand Total			**142[2]**

1. CZ2007 Database Systems is fulfilled by:
   - BC2402 Designing and Developing Databases (4AU)

2. CZ3179 Professional Internship is jointly fulfilled by:
   - AB1001 Career Foundations (1AU)
   - AB1002 Career Readiness (1AU)
   - AB1003 Professional Attachment (5AU)
   - AB3601 Strategic Management (4AU)

   The above replacement BBus courses add up to 11AU, i.e. 1AU more than 'CZ3179 Professional Internship' (10AU) and total AU for BEng (CS).

3. HW0188 Engineering Communication I is fulfilled by:
   - AB0601 Communication Management Fundamentals (2AU)

4. HW0288 Engineering Communication & ML0003 by MLCPS are fulfilled by:
   - AB0602 Communication Management Strategy (4AU)

List of courses that contribute towards the

BBus (with BA Specialisation) CGPA computation under the Business and BEng(CS) Double Degree Programme (BCG)

Applicable to Students Admitted from AY20/21 onwards

		BBus (with BA Specialisation)	AU Load
Discipline Requirements	Core	AD1101 Financial Accounting	4
		AD2101 Management Accounting	4
		AB1201 Financial Management	3
		AB1202 Statistical and Quantitative Methods	3
		HE5091 Principles of Economics	3
		AB1501 Marketing	3
		AB1601 Organisation Behaviour and Design	3
		AB3601 Strategic Management	4
		AB1401 Information Technology *(fulfilled by CZ1103 Introduction to Computational Thinking and Programming)*	3
		BL9301 Law of Commercial Transactions [5] OR *BE3201 Entrepreneurial Finance [5] OR* *BE2501 International Business Environment [5]*	4
		BE1401 Business Operations & Processes [5]	4
		BE2601 Principles of Management [5]	4
			(43)
	Career Foundations	AB1001 Career Foundations	1
		AB1002 Career Readiness	1
		AB1003 Professional Attachment (Special Semester)	5
			(7)
	Major PE	BC2402 Designing & Developing Databases	4
		BC2406 Analytics I: Visual and Predictive Analytics	4
		BC2407 Analytics II: Advanced Predictive Analytics	4
		BCxxxx Business/CS Integration 1	4
		BCxxxx Business/CS Integration 2	4
		BCxxxx Business/CS Integration 3	4
			(24)

General Education Requirements (GER)	Core	AB0601 Communication Management Fundamentals	2
		AB0602 Communication Management Strategy	4
		AB1301 Business Law	3
		GC0001 Sustainability: Seeing Through The Haze	1
		HY0001 Ethics & Moral Reasoning	1
		ET0001 Enterprise & Innovation	1
		CZ1115 Introduction to Data Science and Artificial Intelligence	3
			(15)
	PE	*EG0001 Engineers & Society* (LA)	3
		CZ3004 Multidisciplinary Design Project (BM)	3 + 1^
		Science & Technology (STS)	3
		^The CZ replacement course is 1 AU more than GER-PE(BM)	**(10)**
	UE	Unrestricted Electives	6
		Unrestricted Electives *(To choose the best 6 AUs from all CE/CZ1xxx, CE/ CZ2xxx, CE/CZ3xxx except CE/CZ1103, CE/CZ1113, CE/ CZ1105, CE/CZ2006 and CZ4079)*	6
			(12)
Grand Total			**111**

5. BL9301 Law of Commercial Transactions/BE3201 Entrepreneurial Finance/BE2501 International Business Environment, BE1401 Business Operations & Processes and BE2601 Principles of Management are jointly fulfilled by:
   - CZ1113 Physics for Computing (2AU)
   - CZ2006 Software Engineering (3AU)
   - CZ4079 Final Year Project (8AU)

   The above replacement CZ courses add up to 13AU, i.e. 1AU more than the total AU of 'BL9301 Law of Commercial Transactions/BE3201 Entrepreneurial Finance/BE2501 International Business Environment' (4AU), 'BE1401 Business Operations & Processes' (4AU) and 'BE2601 Principles of Management' (4AU).