NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

School of Computer Science and Engineering

List of courses that contribute towards the

BEng (Computer Engineering) CGPA computation under the Business and BEng (CE) Double Degree Programme (BCE)

Applicable to Students Admitted from AY20/21 onwards

		BEng (CS)	AU Load
Discipline Requirements	Core	MH1810 Mathematics I	3
		MH1812 Discrete Mathematics	3
		CE1103 Introduction to Computational Thinking & Programming	3
		CE1104 Linear Algebra for Computing	3
		CE1105 Digital Logic	3
		CE1106 Computer Organisation and Architecture	3
		CE1107 Data Structures and Algorithms	3
		CE1113 Physics for Computing	2
		xxxxxx Engineering Fundamentals 2	3
		CE2100 Probability and Statistics for Computing	3
		CE2101 Algorithms Design and Analysis	3
		CE2002 Object Oriented Design and Programming	3
		CE2003 Digital Systems Design	3
		CE3002 Sensors, Interfacing and Digital Control	3
		CE2005 Operating Systems	3
		CE2006 Software Engineering	3
		CE2107 Microprocessor Systems Design and Development	3
		CE3005 Computer Networks	3
		CE3004 Multidisciplinary Design Project	4
		CE3102 Signal, Systems and Transform	3
		CE3103 Embedded Programming	3
		CE3001 Advanced Computer Architecture	3
		CE3179 Professional Internship [1]	11
		CE4079 Final Year Project	8
			(85)
	Major PE	CE4xxx Prescribed Elective 1	3
		CE4xxx Prescribed Elective 2	3
		CE4xxx Prescribed 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
		HW0111 Communication: A Journey of Inquiry through Writing and Speech [2]	2
		HW0288 Engineering Communication & ML0003 by MLCPS [3]	4
		CE1115 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	3
		Unrestricted Electives *(To choose the best 9 AUs from all ABxxxx, ADxxxx, except AB0601, AB0602, AB1301, AB1001, AB1201, AB1002, AB1003. Note: BCxxxx are not to be included in the basket of choices)*	9
			(12)
Grand Total			**142**[1]

1. CE3179 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 'CE3179 Professional Internship' (10AU) and total AU for BEng (CE).

2. HW0111 Communication: A Journey of Inquiry through Writing and Speech is fulfilled by:
   - AB0601 Communication Management Fundamentals (2AU)

3. 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(CE) Double Degree Programme (BCE)**

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 CE1103 Introduction to Computational Thinking & Programming)*	3
		BL9301 Law of Commercial Transactions [4] OR *BE3201 Entrepreneurial Finance [4] OR* *BE2501 International Business Environment [4]*	4
		BE1401 Business Operations & Processes [4]	4
		BE2601 Principles of Management [4]	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/CE Integration 1	4
		BCxxxx Business/CE Integration 2	4
		BCxxxx Business/CE 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
		CE1115 Introduction to Data Science and Artificial Intelligence	3
			(15)
	PE	*EG0001 Engineers & Society* (LA)	3
		CE3004 Multidisciplinary Design Project (BM)	3 + 1^
		Science & Technology (STS)	3
		^The CE replacement course is 1 AU more than GER-PE(BM)	**(10)**
	UE	Unrestricted Electives	3
		Unrestricted Electives *(To choose the best 9 AUs from all CE/CZ1xxx, CE/CZ2xxx, CE/CZ3xxx except CE/CZ1103, CE/CZ1113, CE/CZ1105, CE/CZ2006 and CE4079)*	9
			(12)
Grand Total			**111**

4. 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:
   - CE1113 Physics for Computing (2AU)
   - CE2006 Software Engineering (3AU)
   - CE4079 Final Year Project (8AU)

   The above replacement CE 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).