

List of courses that contribute towards the

**BEng (Computer Engineering) CGPA computation
under the BEng (CE) and B.SocSci (Econs) Double
Degree Programme (CEEC)**

BEng(CE)			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)	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
		SC1015	Introduction to Data Science & AI	3
		SC3079/ SC3026	Professional Internship /Professional Attachment	10(PI)/5(PA)
				(15/10)
	Broadening & Deepening Electives*	HE1001	Microeconomics I	3
		HE1002	Macroeconomics I	3
		HE2001	Microeconomics II	3
		HE2002	Macroeconomics II	3
		HE2003	Econometrics I	3
		HEXXXX	Economic PE Course	3
			Broadening & Deepening Electives	3(PI)/8(PA)
				(21/26)
	Grand Total			

*15AU from compulsory Year 1 and 2 Economics Core Courses, 3AU from Year 3 and 4 Economics PE courses that yield the highest CGPA, 3AU from BDE and +5AU for student who takes PA instead of PI

List of courses that contribute towards the
BEng (Computer Engineering) CGPA computation
under the BEng (CS) and B.SocSci (Econs) Double
Degree Programme (CSEC)

BEng(CS)				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	3
		SC2008	Computer Networks	3
		SC2079	Multidisciplinary Design Project	4
		SC4079	Final Year Project	8
	Major PE	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 (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
		SC1015	Introduction to Data Science & AI	3
		SC3079/ SC3026	Professional Internship /Professional Attachment	10(PI)/5(PA)
				(15/10)
	Broadening & Deepening Electives*	HE1001	Microeconomics I	3
		HE1002	Macroeconomics I	3
		HE2001	Microeconomics II	3
		HE2002	Macroeconomics II	3
		HE2003	Econometrics I	3
		HEXXXX	Economic PE Course	3
			Broadening & Deepening Electives	3(PI)/8(PA)
			(21/26)	
	Grand Total			135

*15AU from compulsory Year 1 and 2 Economics Core Courses, 3AU from Year 3 and 4 Economics PE courses that yield the highest CGPA, +3AU from BDE and +5AU for student who takes PA instead of PI