

BEng (Computer Science) and BSocSci (Economics) (AY2020 Cohort)

List of courses that contribute towards BEng (Computer Science)				AU Load	
Discipline Requirement	Core	MH1810	Mathematics I	3	79 AUs (PA) 84 AUs (PI)
		MH1812	Discrete Mathematics	3	
		CZ1103	Introduction to Computational Thinking and 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 II	3	
		CZ2100	Probability and Statistics for Computing	3	
		CZ2101	Algorithm Design and Analysis	3	
		CZ2002	Object Oriented Design & Programming	3	
		CZ2005	Operating Systems	3	
		CZ2006	Software Engineering	3	
		CZ2007	Introduction to Databases	3	
		CZ2008	Computer Networks	3	
		CZ3005	Artificial Intelligence	3	
		CZ4062	Computer Security	3	
		CZ4031	Database System Principles	3	
		CZ3002	Advanced Software Engineering	3	
CZ3001	Advanced Computer Architecture	3			
CZ3004	Multidisciplinary Project	4			
CZ3126/CZ3179	Professional Attachment/Internship	5/10			
CZ4079	Final Year Project	8			
Core Elective	CZ4xxx	CZ Prescribed Elective 1	3	18 AUs	
	CZ4xxx	CZ Prescribed Elective 2	3		
	CZ4xxx	CZ Prescribed Elective 3	3		
	CZ4xxx	CZ Prescribed Elective 4	3		
	CZ4xxx	CZ Prescribed Elective 5	3		
	CZ4xxx	CZ Prescribed Elective 6	3		
UE	HE1001	Microeconomic Principles	3	24 AUs (12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 12 AUs from 3 rd and 4 th year Economics courses that yield the highest CGPA.)	
	HE1002	Macroeconomic Principles5)	3		
	HE1005	Intro to Probability & Statistical Inference	3		
	HE2005	Principles of Econometrics	3		
	HExxxx	Economics Course 1	3		
	HExxxx	Economics Course 2	3		
	HExxxx	Economics Course 3	3		
HExxxx	Economics Course 4	3			
General Education Requirements (GER)	GER (Core)	HW0188	Effective Communication	2	14 AUs
		HW0288	Engineering Communication	2	
		ML0003	Kickstart your Career Success	1	
		EG0001	Engineers and Society	3	
		GC0001	Sustainability: Seeing through the Haze	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Enterprise and Innovation	1	
	CZ1115	Introduction to Data Science and Artificial Intelligence	3		
UE		UE	5	5 AUs (only for PA track; not required for PI track)	
TOTAL				140 AUs	

BEng (Computer Engineering) and BSocSci (Economics) (AY2020 Cohort)

List of courses that contribute towards BEng (Computer Engineering)				AU Load	
Discipline Requirement	Core	MH1810	Mathematics I	3	79 AUs (PA) 84 AUs (PI)
		MH1812	Discrete Mathematics	3	
		CE1103	Introduction to Computational Thinking and 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 II	3	
		CE2100	Probability and Statistics for Computing	3	
		CE2101	Algorithm Design and Analysis	3	
		CE2002	Object Oriented Design & 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 Programming	3	
		CE3005	Computer Networks	3	
		CE3102	Signal, Systems and Transform	3	
		CE3103	Embedded Programming	3	
	CE3001	Advanced Computer Architecture	3		
	CE3004	Multidisciplinary Design Project	4		
	CE3126/CE3179	Professional Attachment/Internship	5/10		
	CE4079	Final Year Project	8		
	Core Elective	CE/CZ4xxx	CE Prescribed Elective 1	3	18 AUs
		CE/CZ4xxx	CE Prescribed Elective 2	3	
		CE/CZ4xxx	CE Prescribed Elective 3	3	
CE/CZ4xxx		CE Prescribed Elective 4	3		
CE/CZ4xxx		CE Prescribed Elective 5	3		
CE/CZ4xxx		CE Prescribed Elective 6	3		
UE	HE1001	Microeconomic Principles	3	24 AUs (12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 12 AUs from 3 rd and 4 th year Economics courses that yield the highest CGPA.)	
	HE1002	Macroeconomic Principles	3		
	HE1005	Intro to Probability & Statistical Inference	3		
	HE2005	Principles of Econometrics	3		
	HExxxx	Economics Course 1	3		
	HExxxx	Economics Course 2	3		
	HExxxx	Economics Course 3	3		
	HExxxx	Economics Course 4	3		
General Education Requirements (GER)	GER (Core)	HW0111	Communication: A Journey of Inquiry through Writing and Speech	2	14 AUs
		HW0288	Engineering Communication	2	
		MLO003	Kickstart your Career Success	1	
		EG0001	Engineers and Society	3	
		GC0001	Sustainability: Seeing through the Haze	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Enterprise and Innovation	1	
		CE1115	Introduction to Data Science and Artificial Intelligence	3	
	UE		UE	5	5 AUs (only for PA track; not required for PI track)
TOTAL				140 AUs	