

BEng (Civil Engineering) and BA (Economics) (Students admitted from AY2019/2020)

List of courses that contribute towards BEng (Civil Engineering)				AU Load		
Discipline Requirement	Core	PH1011	Physics**	3	88 AUs (PA Option) 93 AUs (PI Option)	
		MH1810	Mathematics 1	3		
		MH1811	Mathematics 2	3		
		FE1073	Introduction to Engineering & Practices	1		
		CV1011	Mechanics of Materials	4		
		CV1012	Fluid Mechanics	3		
		CV1013	Civil Engineering Materials	3		
		CV1014	Introduction to Computational Thinking	3		
		CV1711	Civil Engineering Drawing	1		
		CV2011	Structural Analysis I	3		
		CV2012	Structural Analysis II	3		
		CV2013	Engineering Geology & Soil Mechanics	3		
		CV2014	Geotechnical Engineering	3		
		CV2015	Hydraulics	3		
		CV2016	Hydrology	3		
		MH2814	Probability & Statistics	3		
		CV2019	Matrix Algebra & Computational Methods	3		
		CV2711	Civil Engineering Laboratory A	1		
		CV2712	Civil Engineering Laboratory B	1		
		CV3011	Reinforced Concrete Design	3		
		CV3012	Steel Design	3		
		CV3013	Foundation Engineering	3		
		CV3014	Transportation Engineering	3		
		CV3015	Environmental Engineering	3		
		CV3016	Construction Technology & Processes	3		
		CV3914/C	Professional Internship / Professional Attachment	10 / 5		
		V3915	Attachment			
	CV4011	Project Planning & Management	3			
	CV4711	Seminars & Site Visits	1			
	CV4911	Final Year Project	8			
	CV4912	Integrated Design	3			
	UE	HE1001	Microeconomic Principles	3		21 AUs 12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 9 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	4				
Major PE	CV4XXX	Core Elective 1	3	9 AUs		
	CV4XXX	Core Elective 2	3			
	CV4XXX	Core Elective 3	3			
General Education Requirements (GER)	GER-Core	CV0001	Civil Engineering and Sustainable Built	3	16 AUs	
		EG0001	Engineers and Society	3		
		CV0003	Intro to Data Sc. and Artificial Intelligence	3		
		HW0188	Engineering Communication I	2		
		HW0288	Engineering Communication II	2		
		ML0003	Kickstart your Career Success	1		
	HY0001	Ethics and Moral Reasoning	1			
ET0001	Entrepreneurship and Innovation	1				
GER-		Elective	5	5 AUs (PA Option)		
Total AUs				139/140 AUs		

** Students without 'A' level Physics will take PH1012 (FE1012) Physics A (4AU)

BEng (Environmental Engineering) and BA (Economics) (Students admitted from AY2019/2020)

List of courses that contribute towards BEng (Environmental Engineering)				AU Load			
Discipline Requirements	Core	PH1011	Physics**	3	88 AUs (PA Option) 93 AUs (PI Option)		
		MH1810	Mathematics 1	3			
		MH1811	Mathematics 2	3			
		FE1073	Introduction to Engineering & Practices	1			
		CV1011	Mechanics of Materials	4			
		CV1012	Fluid Mechanics	3			
		CV1014	Introduction to Computational Thinking	3			
		CV1711	Civil Engineering Drawing	1			
		CV2011	Structural Analysis I	3			
		CV2013	Engineering Geology & Soil Mechanics	3			
		CV2015	Hydraulics	3			
		CV2016	Hydrology	3			
		MH2814	Probability & Statistics	3			
		CV2019	Matrix Algebra & Computational Methods	3			
		CV3016	Construction Technology & Processes	3			
		CV4011	Project Planning & Management	3			
		EN1001	Environmental Chemistry	3			
		EN2001	Environmental Issues in a Changing World	3			
		EN2002	Environmental Biology and Microbiology	3			
		EN2003	Water Supply Engineering	3			
		EN2711	Environmental Engineering Laboratory A	1			
		EN2712	Environmental Engineering Laboratory B	1			
		EN3001	Solid & Hazardous Waste Management	3			
		EN3002	Wastewater Engineering	3			
		EN3003	Environmental Transport Processes	3			
		EN3004	Air Pollution Control Engineering	3			
		EN3914 / EN3915	Professional Internship / Professional Attachment	10 / 5			
		EN4711	Seminars & Site Visits	1			
		EN4911	Final Year Project	8			
		EN4912	Integrated Design	3			
		UE	HE1001	Microeconomic Principles		3	21 AUs 12 AUs from compulsory Year 1 and 2 Economics courses. Remaining 9 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		4				
Major PE	EN4XXX	Core Elective 1	3	9 AUs			
	EN4XXX	Core Elective 2	3				
	EN4XXX	Core Elective 3	3				
General Education Requirements (GER)	GER-Core	EG0001	Engineers and Society	3	16 AUs		
		CV0003	Intro to Data Sc. and Artificial Intelligence	3			
		EN0001	Sustainability Practices for Urban and Marine Environment	3			
		HW0188	Engineering Communication I	2			
		HW0288	Engineering Communication II	2			
		ML0003	Kickstart your Career Success	1			
		HY0001	Ethics and Moral Reasoning	1			
ET0001	Entrepreneurship and Innovation	1					
GER-UE		Elective	5	5 AUs (PA option)			
Total AUs				139/140 AUs			

** Students without 'A' level Physics will take PH1012 (FE1012) Physics A (4AU)