

BEng (Civil Engineering) and BA (Economics) (wef AY2016/2017)

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	
		FE1008	Computing	3	
		FE1073	Introduction to Engineering & Practises	1	
		CV1011	Mechanics of Materials	4	
		CV1012	Fluid Mechanics	3	
		CV1013	Civil Engineering Materials	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	
		CV3915/ CV3914	Professional Attachment / Professional Internship	5 / 10	
		CV4011	Project Planning & Management	3	
		CV4711	Seminars & Site Visits	1	
		CV4911	Final Year Project	8	
		CV4912	Integrated Design	3	
		UE	HE1001	Microeconomic Principles	
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	CV0002	Engineers and Society	3	12 AUs
		HW0188	Engineering Communication I	2	
		HW0288	Engineering Communication II	2	
		ML0001	Absolute Basics for Career	1	
		ML0002	Career Power Up!	1	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
	GER-PE	CV0001	Civil Engineering and Sustainable Built Environment	3	3 AUs
	GER-UE		Elective	5	5 AUs (PA Option)
Total AUs				138 AUs	

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

BEng (Environmental Engineering) and BA (Economics) (wef AY2016/2017)

List of courses that contribute towards BEng (Environmental 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	
		FE1008	Computing	3	
		FE1073	Introduction to Engineering & Practises	1	
		CV1011	Mechanics of Materials	4	
		CV1012	Fluid Mechanics	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	
		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	
		EN3005	Structural Design	3	
		EN3915 /	Professional Attachment / Professional	5 /	
		EN3914	Internship	10	
		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	CV0002	Engineers and Society	3	12 AUs
		HW0188	Engineering Communication I	2	
		HW0288	Engineering Communication II	2	
		ML0001	Absolute Basics for Career	1	
		ML0002	Career Power Up!	1	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
	ET0001	Entrepreneurship and Innovation	1		
	GER-PE	EN0001	Sustainability Practices for Urban and Marine Environment	3	
GERUE		Elective	5	5 AUs (PA option)	
Total AUs				138 AUs	

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