

## Curriculum Structure of Bachelor of Engineering (Civil) & Bachelor of Soc Sci in Economics with Professional Attachment - AY 2020/21

Year	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	Course	AU	TOTAL AU
Year 1 Semester 1	MH1810 Mathematics 1	3	PH1011 Physics <i>*Students w/o A-level Physics to do *PH1012 Physics A</i>	3	FE1073 An Introduction to Engineering & Practices	1	CV1011 Mechanics of Materials (Engineering Fundamentals 1)	4	HE1001 Microeconomic Principles	3	HY0001 Ethics and Moral Reasoning	1	ET0001 Enterprise and Innovation	1	HW0188 Effective Communication <i>*HW0001</i>	2	18
Year 1 Semester 2	MH1811 Mathematics 2	3	CV1012 Fluid Mechanics	3	CV1014 Introduction To Computational Thinking	3	Engineering Fundamentals 2	3	EG0001 Engineers & Society	3	CV0001 Civil Engineering and Sustainable Built Environment	3	HE1005 Introduction to Probability and Statistical Inference	3			21
Year 2 Semester 1	CV2011 Structural Analysis I <i>*CV1011</i>	3	CV2013 Engineering Geology & Soil Mechanics	3	CV2020 Water Resources Engineering <i>*CV1012</i>	3	CV2711 Civil Engineering Laboratory A	1	HE1002 Macroeconomic Principles	3	HE2005 Principles of Econometrics <i>*HE1005</i>	3	CV0003 Introduction to Data Science and Artificial Intelligence <i>*CV1014</i>	3			19
Year 2 Semester 2	CV1013 Civil Engineering Materials	3	CV1711 Engineering Drawing and 3D Building Information Modelling	1	CV2012 Structural Analysis II <i>*CV2011</i>	3	CV2014 Geotechnical Engineering	3	CV2019 Matrix Algebra & Computational Methods	3	CV2712 Civil Engineering Laboratory B	1	HE2001 Intermediate Microeconomics <i>*HE1001</i>	3	HE2002 Intermediate Macroeconomics <i>*HE1002</i>	3	20
Year 3 Semester 1	CV3011 Reinforced Concrete Design <i>*CV2011</i>	3	CV3013 Foundation Engineering <i>*CV2013 &amp; CV2014</i>	3	CV3014 Transportation Engineering	3	CV3015 Environmental Engineering <i>*CV1012</i>	3	HE4010 Singapore Economy in a Globalized World <i>*HE2001 &amp; HE2002</i>	4	HW0288 Engineering Communication <i>*HW0188</i>	2	ML0003 Kickstart your Career Success	1			19
Year 3 Semester 2	CV3012 Steel Design <i>*CV2011</i>	3	CV3016 Construction Technology & Processes	3	Econs PE 1	3	Econs PE 2	3	Econs PE 3	3	GER - UE	3					18
Special Semester	CV3915 Professional Attachment	5	← <i>* Year 3 Standing &amp; Completed at least 4 Semesters of study</i>														5
Year 4 Semester 1	CV4011 Project Planning & Management <i>*Year 4 Standing</i>	3	CV4711 Seminars & Site Visits	1	CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	Econs PE 4	3	Econs PE 5	3					16
Year 4 Semester 2	CV4912 Integrated Design Project <i>*Year 4 Standing</i>	3	CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i>	3	HE3021 Intermediate Econometrics <i>*HE2005</i>	3	Econs PE 6	3	Econs PE 7	3							15
Year 5 Semester 1	CV4911 Final Year Project <i>*Year 4 Standing</i>	4	Econs PE 8	3	Econs PE 9	3	Econs PE 10	4									14
Year 5 Semester 2	CV4911 Final Year Project <i>*Year 4 Standing</i>	4	Econs PE 11	4	Econs PE 12	4	GER - UE	2									14

*\* denotes pre-requisite*

**Total AU for Graduation 179**