

Curriculum Structure of Bachelor of Engineering (Civil) & Bachelor of Arts in Economics - AY 2019/20

| 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 | CV1011 Mechanics of Materials | 4 | PH1011 Physics <i>*Students w/o A-level Physics to do *PH1012 Physics A</i> | 3 | FE1073 An Introduction to Engineering & Practices | 1 | HE1001 Microeconomic Principles | 3 | HE1002 Macroeconomic Principles | 3 | HY0001 Ethics and Moral Reasoning | 1 | HW0188 Engineering Communication I <i>*HW0001</i> | 2 | 20 |
| Year 1 Semester 2 | MH1811 Mathematics 2 | 3 | CV1012 Fluid Mechanics | 3 | CV1013 Civil Engineering Materials | 3 | CV1014 Introduction To Computational Thinking | 3 | CV1711 Civil Engineering Drawing and 3D Building Information Modelling | 1 | CV0001 Civil Engineering and Sustainable Built Environment | 3 | HE1005 Introduction to Probability and Statistical Inference | 3 | | | 19 |
| Year 2 Semester 1 | CV2011 Structural Analysis I <i>*CV1011</i> | 3 | CV2013 Engineering Geology & Soil Mechanics | 3 | CV2015 Hydraulics <i>*CV1012</i> | 3 | MH2814 Probability & Statistics <i>*MH1810</i> | 3 | CV2711 Civil Engineering Laboratory A | 1 | 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 | CV2012 Structural Analysis II <i>*CV2011</i> | 3 | CV2014 Geotechnical Engineering | 3 | CV2016 Hydrology | 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 | ML0003 Kickstart your Career Success | 1 | 20 |
| Year 3 Semester 1 | CV3011 Reinforced Concrete Design <i>*CV2011</i> | 3 | CV3013 Foundation Engineering <i>*CV2013 & CV2014</i> | 3 | CV3014 Transportation Engineering | 3 | CV3015 Environmental Engineering <i>*CV1012</i> | 3 | HE4010 Singapore Economy in a Globalized World <i>*HE2001 & HE2002</i> | 4 | ET0001 Enterprise and Innovation | 1 | HW0288 Engineering Communication II <i>*HW0188</i> | 2 | | | 19 |
| Year 3 Semester 2 | CV3914 Professional Internship | 10 | ← <i>* Year 3 Standing & Completed at least 4 Semesters of study</i> | | | | | | | | | | | | | | 10 |
| Year 4 Semester 1 | CV0002 Engineers & Society | 3 | 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 | Econs PE 1 | 3 | Econs PE 2 | 3 | Econs PE 3 | 3 | | | 19 |
| Year 4 Semester 2 | CV3012 Steel Design <i>*CV2011</i> | 3 | CV3016 Construction Technology & Processes | 3 | CV4912 Integrated Design Project <i>*Year 4 Standing</i> | 3 | CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i> | 3 | CV4XXX Major Prescribed Elective <i>*Refer to Syllabus</i> | 3 | HE3021 Intermediate Econometrics <i>*HE2005</i> | 3 | | | | | 18 |
| Year 5 Semester 1 | CV4911 Final Year Project <i>*Year 4 Standing</i> | 4 | Econs PE 4 | 3 | Econs PE 5 | 3 | Econs PE 6 | 3 | Econs PE 7 | 3 | Econs PE 8 | 3 | | | | | 19 |
| Year 5 Semester 2 | CV4911 Final Year Project <i>*Year 4 Standing</i> | 4 | Econs PE 9 | 3 | Econs PE 10 | 4 | Econs PE 11 | 4 | Econs PE 12 | 4 | | | | | | | 19 |

** denotes pre-requisite*

Total AU for Graduation 182