


BRC Curriculum Structure of Bachelor of Engineering (Civil) & Bachelor of Arts in Economics with Industrial Orientation for 2013/14 cohort

| Year | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | Course | AU | TOTAL AU |
|-------------------|---|----|---|----|--|----|---|----|---|----|--|----|--|----|----------|
| Year 1 Semester 1 | MH1810 Mathematics 1 | 3 | FE1008 Computing | 3 | PH1011 Physics <i>*(Students w/o A-level Physics to do "PH1012 Physics A)</i> | 3 | FE1073 Introduction to Engineering & Practices | 1 | HE1001 Microeconomic Principles | 3 | HE1002 Macroeconomic Principles | 3 | HW0110 Effective Communication | 2 | 18 |
| Year 1 Semester 2 | MH1811 Mathematics 2 | 3 | CV0001 Civil Engineering and Sustainable Built Environment | 3 | CV1011 Mechanics of Materials | 4 | CV1012 Fluid Mechanics | 3 | CV1013 Civil Engineering Materials | 3 | CV1711 Civil Engineering Drawing | 1 | HE1005 Introduction to Probability and Statistical Inference | 3 | 20 |
| Year 2 Semester 1 | CV2011 Structural Analysis I <i>*(CV1011)</i> | 3 | CV2013 Engineering Geology & Soil Mechanics | 3 | CV2015 Hydraulics <i>*(CV1012)</i> | 3 | CV2018 Probability & Statistics | 3 | CV2711 Civil Engineering Laboratory A | 1 | HW0210 Technical Communication | 2 | HE2005 Principles of Econometrics <i>*(HE1005)</i> | 3 | 18 |
| 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 | 19 |
| 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 | HW0310 Professional Communication | 2 | | | 18 |
| 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 | Econs PE 4 | 3 | | | 18 |
| Special Semester | CV3912 Industrial Orientation | 4 |  <i>*(Year 3 Standing & Completed at least 4 Semesters of study)</i> | | | | | | | | | | 4 | | |
| Year 4 Semester 1 | CV0002 Engineers & Society | 3 | CV4011 Project Planning & Management <i>*(Year 4 Standing)</i> | 3 | CV4711 Seminars & Site Visits | 1 | CV4XXX Specialization Course <i>*(Refer to Syllabus)</i> | 3 | GER - Elective | 3 | | | | | 13 |
| Year 4 Semester 2 | CV4912 Integrated Design Project <i>*(Year 4 Standing)</i> | 3 | CV4XXX Specialization Course <i>*(Refer to Syllabus)</i> | 3 | CV4XXX Specialization Course <i>*(Refer to Syllabus)</i> | 3 | HE3021 Intermediate Econometrics <i>*(HE2005)</i> | 3 | Econs PE 5 | 3 | | | | | 15 |
| Year 5 Semester 1 | CV4911 Final Year Project <i>*(Year 4 Standing)</i> | 4 | Econs PE 6 | 3 | Econs PE 7 | 3 | Econs PE 8 | 3 | Econs PE 9 | 3 | | | | | 16 |
| Year 5 Semester 2 | CV4911 Final Year Project <i>*(Year 4 Standing)</i> | 4 | Econs PE 10 | 4 | Econs PE 11 | 4 | Econs PE 12 | 4 | | | | | | | 16 |

**() denotes pre-requisite*

Total AU for Graduation 175

