Bachelor of Engineering (Civil Engineering) with Second Major in Innovation & Design

Cohort 2016/2017

Modular Requirements	Modular Credits (MCs)
University Level Requirements	
General education modules:	
Quantitative Reasoning (GER1000)	4
Thinking & Expression (GET)	4
Human Cultures (GEH)	4
Singapore Studies (GES)	4
Asking Questions (GEQ1000)	4
Sub-total for University Level Requirements	20
Programme Requirements	
Faculty requirements:	
ES1531 Critical Thinking & Writing ¹ (or equivalent)	4
(Double-counted for Second Major in Innovation & Design)	
ES2331 Communicating Engineering ¹	4
EG2401 Engineering Professionalism	3
ES1xxxx English ²	-
Year 1 and core modules:	
MA1505 Mathematics I	4
MA1506 Mathematics II	4
PC1431 Physics IE	4
CE1109 Statics & Mechanics of Materials	4
CE2112 Soil Mechanics	4
CE2134 Hydraulics	4
CE2155 Structural Mechanics & Materials	4
CE2183 Construction Project Management	4
CE2184 Infrastructure and the Environment	4
CE2407 Engineering & Uncertainty Analyses	4
CE2409 Computer Applications in Civil Engineering	4
ESE3001 Water Quality Engineering	4
CE3115 Geotechnical Engineering	4
CE3116 Foundation Engineering	4
CE3121 Transportation Engineering	4
CE3132 Water Resources Engineering	4
CE3155 Structural Analysis	4
CE3165 Structural Analysis CE3165 Structural Concrete Design	4
CE3166 Structural Steel Design & System	4
CVE technical electives ³	•
Level 3 technical elective modules	4
Higher level technical level modules	10
CVE design and project modules:	
CE4103 Design Project	4
EG4301 DCP Dissertation or EG4301A Ideas to Start-up (over 2 consecutive)	12
semesters)	
(Double-counted for Second Major in Innovation & Design and replaces CE4104 B.Eng.	
Dissertation)	
EG3612 Vacation Internship Programme (VIP) 3,4	6
Sub-total for Programme Requirements	123

Innovation & Design Programme Faculty of Engineering

Unrestricted Elective Modules (UEM)	
Group A module for Second Major	4
Group B module for Second Major	4
Group C modules for Second Major – Innovation & Enterprise electives	12
EG3301R DCP Project (over 2 consecutive semesters)	12
Sub-total for Unrestricted Elective Modules	32
Total	175

Notes:

- ¹ Students in USP, UTRP, and RVRC may read an equivalent module (e.g. ES1501X Academic Expository Writing) in lieu of EG1531 and/or ES2331.
- ² Students who have not passed or been exempted from the Qualifying English Test at the point of admission will have to read ES1000 and/or ES1103. ES1103 carries 4 MCs which may be counted as UEM.
- ³ Students in this Second Major are allowed to complete EG3612 (6 MCs) plus additional technical electives (6 MCs) in lieu of EG3611 (12 MCs).
 - Students may also opt to do EG3611 (12 MCs) in lieu of EG3612 (6 MCs) and 6 MCs of technical electives.
- EG3612 (VIP) is optional for poly-intake students and those in the following special programmes: double degree programmes (DDP), concurrent degree programmes (CDP), Chemical Sciences Programme (CSP), and Global Engineering Programme (GEP).