

**Bachelor of Engineering (Biomedical Engineering)
without 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
• 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
• PC1432 Physics IIE	4
• CS1010E Programming Methodology	4
• CM1501 Organic Chemistry for Engineers	4
• LSM1401 Fundamentals of Biochemistry	4
• BN2102 Bioengineering Data Analysis	4
• BN2201 Quantitative Physiology for Bioengineers	4
• BN2202 Introduction to Biotransport	4
• BN2204 Fundamentals of Biomechanics	4
• BN2401 Biosignals Processing	4
• BN2402 Fundamentals of Bioinstrumentation	4
• BN3301 Introduction to Biomaterials	4
BME technical electives ⁴	20
Pathway requirements:	
• Group C modules – Innovation & Enterprise electives	8
BME design and project modules:	
• BN2103 Bioengineering Design Workshop	2
• EG3301R DCP Project ³ (over 2 consecutive semesters) <i>(replaces BN3101 Biomedical Engineering Design)</i>	12
• EG4301 DCP Dissertation <u>or</u> EG4301A Ideas to Start-up ⁴ (over 2 consecutive semesters) <i>(replaces BN4101 BEng Dissertation)</i>	12
EG3612 Vacation Internship Programme (VIP) ^{3,5}	6
Sub-total for Programme Requirements	127

Modular Requirements	Modular Credits (MCs)
Unrestricted Elective Modules (UEM)	
iDP modules:	
• Group A module	4
• Group B module	4
• Group C module – Innovation & Enterprise elective	4
Other UEM	4
Sub-total for Unrestricted Elective Modules	16
Total	163

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 the iDP are allowed to complete EG3612 (6 MCs) in lieu of EG3611 (12 MCs).

The 12 MCs for EG3301R are mapped by 6 MCs from BN3101 and 6 MCs from the replacement of EG3611 (12 MCs) with EG3612 (6 MCs).
- ⁴ The 12 MCs for EG4301 are mapped by 8 MCs from BN4101 and 4 MCs of technical electives.
- ⁵ EG3612 (VIP) is optional for students in the following special programmes: double degree programmes (DDP), concurrent degree programmes (CDP), Chemical Sciences Programme (CSP), and Global Engineering Programme (GEP).