BIOMEDICAL ENGINEERING – SECOND MAJOR

FOR COHORT AY2021/2022 ONWARDS	MC
Common Curriculum	**60**
Singapore Studies	4
Cultures and Connections	4
Communities and Engagement	4
Critical Thinking and Writing	4
Programming Methodology	4
Quantitative Reasoning with Data	4
Design Thinking	4
Design and Make	4
Systems Thinking and Dynamics	4
Introduction to Machine Learning	4
Liveable Cities	4
Creating Narratives	4
Fundamentals of Project Management	4
B.Eng Dissertation [2]	8
Major Requirements	**60**
Engineering Calculus	2
Introduction to Numerical Methods for Engineers	2
Uncertainty Analysis for Engineers	2
Linear Algebra with Differential Equations	2
Engineering Professionalism	2
Industrial Attachment	10
Biomedical Engineering Principles and Practice I	4
Biomedical Engineering Principles and Practice II	4
Biochemistry and Biomaterials for Bioengineers	4
Bioengineering Data Analysis	4
Quantitative Physiology for Bioengineers	4
Fundamentals of Biomechanics	4
Fundamentals of Biosignals and Bioinstrumentation	4
Biomedical Engineering Design [1]	4
Technical Electives	8
Second Major in Innovation & Design	**28**
Group A module for iDP^	4
Group B module for iDP^	4
Group C module for iDP^	8
Design Centric Programme Project [1]	8
Design Centric Programme Dissertation [2]	4
Other Unrestricted Electives	**12**
TOTAL	**160**

^ You may choose from a basket of modules. Please find more details here.

[1] The 12 MCs for DCP Project are counted towards 4 MCs for Biomedical Engineering Design while 8 MCs are counted as unrestricted elective.

[2] The 12 MCs for DCP Dissertation are counted towards 8 MCs for B.Eng Dissertation while 4 MCs are counted as unrestricted elective.