$\underline{\textbf{BIOMEDICAL ENGINEERING}-\textbf{SPECIALISATION}+\textbf{ELECTIVE}}$

FOR COHORT AY2021/2022 ONWARDS	MC			
Common Curriculum	60			
Singapore Studies	4			
Cultures and Connections				
Communities and Engagement				
Critical Thinking and Writing				
Programming Methodology				
Quantitative Reasoning with Data				
Design Thinking				
Design and Make				
Systems Thinking and Dynamics				
Introduction to Machine Learning				
Liveable Cities				
Creating Narratives	4			
Fundamentals of Project Management				
B.Eng Dissertation ¹ (double-counted)	8			
Major Requirements	60			
Engineering Calculus	2			
Introduction to Numerical Methods for Engineers	2			
Uncertainty Analysis for Engineers				
Linear Algebra with Differential Equations				
Engineering Professionalism				
Industrial Attachment				
Biomedical Engineering Principles and Practice I				
Biomedical Engineering Principles and Practice II				
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	4			
Technical Electives (double-counted)	8			
Specialisation in Robotics	20			
Robotics in Rehabilitation (double-counted)	4*			
Intelligent Medical Robotics (double-counted)	4*			
Soft Robotics (double-counted)	4*			
Robot Mechanics and Control	4			
Human-Robot Interaction	4			
OR				
Robotics in Rehabilitation (double-counted)	4*			
Intelligent Medical Robotics (double-counted)	4*			
Soft Robotics (double-counted)	4*			
B.Eng Dissertation ¹ (double-counted)	8*			
Other Unrestricted Electives	32 OR 40			
	TOTAL 160			

¹ If the topic of the B.Eng dissertation is in the area of robotics, the 8 MCs can be double-counted towards the 20 MCs required for the specialisation in robotics.

^{*} Double-counted