Applies to poly students who have APCs and need Math bridging Applies to direct intake and poly students who need Physics bridging

Bachelor of Engineering (Biomedical Engineering)
Recommended Semester Schedule for A-level Students,
(Applies to Poly students who need Math bridging; Applies to Poly students withPhysics bridging)

Semester 1		**Semester 2**	
GEA1000 Quantitative Reasoning with Data	4	CS1010E Programming Methodology	4
DTK1234 Design Thinking (GE/UE) (PC1201 Physic Bridging Course)	4	EG1311 Design and Make (GE/UE) (PC1201 Physic Bridging Course)	4
MA1513 Linear Algebra with Differential Equations (Math bridgingMA1301)	2	GE/UE (Physics bridging PC1201)	4
BN1111 Engineering Principles and Practice I	4	MA1511 Engineering Calculus	2
PF1101 Fundamentals of Project Management	4	CE2407B Introduction to Numerical Methods for Engineers	2
CE2407A Engineering Uncertainty Analysis (Shift to Sem 3)	2	BN2111 Engineering Principles and Practice II	4
Sub-total	**20**	**Sub-total**	**20**
Semester 3		**Semester 4**	
CDE2501 Liveable Cities *	4	ES2631 Critique and Communication of Thinking and Design	4
EE2211 Introduction to MachineLearning (MA1513 + CE2407A)	4	IE2141 Systems Thinking andDynamics *	4
BN2301 Biochemistry and Biomaterialsfor Bioengineers	4	BN2102 Bioengineering Data Analysis	4
BN2403 Fundamentals of Biosignals and Bioinstrumentation	4	BN2204 Fundamentals of Biomechanics	4
EG2401A Engineering Professionalism	2	GE/UE	4
GE/UE **or** BN2201 Quantitative Physiology for Bioengineers)	4		
Sub-total	**22**	**Sub-total**	**20**
Semester 5 (First Half Cohort)		**Semester 5 (Second Half Cohort)**	
EG3611A Industrial Attachment	10	CDE2000 Creating Narratives *	4
GE/UE	4	BN3101A Biomedical Engineering Design	4
GE/UE	4	BN2201 Quantitative Physiology for Bioengineers	4
		GE/UE (EE2211 Introduction to Machine Learning)	4
		GE/UE	4
Sub-total	**18**	**Sub-total**	**20**
Semester 6 (First Half Cohort)		**Semester 6 (Second Half Cohort)**	
CDE2000 Creating Narratives *	4	EG3611A Industrial Attachment	10
BN3101A Biomedical Engineering Design	4	GE/UE	4
GE/UE (if taking BN2201 in Sem 3)	4	GE/UE	4
GE/UE (EE2211 Introduction to Machine Learning)	4		
GE/UE	4		
Sub-total	**20**	**Sub-total**	**18**

Semester 7		**Semester 8**	
BN4101 B.Eng Dissertation	4	BN4101 B.Eng Dissertation	4
Technical Elective	4	Technical Elective	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
Sub-total	**20**	**Sub-total**	**20**

Note: BN2201 can be read in either Sem 3, 5 or 7 depending on when students go on IA and if they need the GE/UE slot in Sem 3.

* Please note that these courses were affected by the in-flight curriculum changes in June 2025

Please see https://cde.nus.edu.sg/undergraduate/curriculum-structure/ for more details