

Biomedical Engineering

AY2026 cohort (Jul 2026)

E-Scholars 3-years schedule (BME)					
Maths requirement (8u) If passed MA1505 APT -> MA1505 + CE2407B + MA1513 Else MA1511+CE2407A+CE2407B+MA1513			Internship requirement (10u) EG3611A Industrial Attachment EG3612/ETP3205 + CDE2605 EG3612/ETP3205 + CDE2605R EG3612/ETP3205 + CFG2101 1 sem NOC (~20u)		
Semester 1		Units	Semester 2		Units
GEA1000 Quantitative Reasoning		4	CE2407B Introduction to Numerical Methods for Engineers		2
DTK1234 Design Thinking		4	BN2112 Molecular Cell Biology for Biomedical Engineers		4
MA1513 Linear Algebra with Differential Equations		2	BN2105 Medical Device Life Cycle Management		4
PF1101A Fundamentals of Project Management and Finance		4	UTCP #2		4
BN1112 Introduction to Biomedical Design and Manufacturing		4	UE		4
BN2104 Medical Technology in Public and Global Health		4	UE		4
UTCP #1		4	UE		4
Sub-total		26	Sub-total		26
Semester 3		Units	Semester 4		Units
BN2301 Biochemistry and Biomaterials for Bioengineers		4	BN2204 Fundamentals of Biomechanics		4
BN2404 Biomedical Circuits and Signal Processing		4	BN3101A Biomedical Engineering Design		4
BME Technical Elective		4	BME Technical Elective		4
EE2211 Introduction to Machine Learning <u>or</u>		4	EG2401A Engineering Professionalism		2
EE2213 Introduction to Artificial Intelligence			UTCP #4		4
UTCP #3		4	UE		4
UE		4	UE		4
UE		4			
Sub-total		28	Sub-total		26
Semester 5		Units	Semester 6		Units
BN4101 B.Eng Dissertation		4	BN4101 B.Eng Dissertation		4
BN2201 Quantitative Physiology for Bioengineers		4	BN3405 Biomedical Instrumentation		4
UE		4	BN3406 Biomedical imaging and AI medical applications		4
UE		4	UE		4
Sub-total		16	Sub-total		16
Grand total				160	

Notes:

1. If APT courses are not cleared, those courses (EG1311, MA1511, MA1505, CS1010E) must be cleared during the normal semesters
2. Special internship course enrollment arrangement for E-Scholars - EG3612 and EG3611A can be enrolled as long as you have cleared 60 units.
3. Important rules for NOC:
 - You MUST be in Singapore for Visa processing the semester BEFORE going to NOC.
 - You MUST have cleared at least 70 units before applying to NOC
4. Note that UROP (CDE2605) may be taken in any regular semester or special term as long as you are at seniority 2.
5. If you wish to read Common Curriculum courses before your department's recommended semester, please submit an appeal or select the courses from Round 2.
 - courses that require appeal: DTK1234, GEA1000, please email:
DTK1234 - dtk1234@nus.edu.sg
GEA1000 - qadmin@nus.edu.sg