

Biomedical Engineering

AY2024 cohort

Accurate as of May 2024

E-Scholars 3-years schedule (BME)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)			4
CS1010E Programming Methodology			4
Sub-total			12
Semester 1	Semester 2		
GEA1000 Quantitative Reasoning	4	BN2102 Bioengineering Data Analysis	4
DTK1234 Design Thinking	4	BN2204 Fundamentals of Biomechanics	4
MA1513 Linear Algebra with Differential Equations	2	BN2111 Engineering Principles and Practice II	4
BN1111 Engineering Principles and Practice I	4	CE2407B Introduction to Numerical Methods for Engineers	2
PF1101 Fundamentals of Project Management	4	UTCP #2	4
CE2407A Engineering Uncertainty Analysis	2	UE (or IE2141 if not staying at RC4)	4
UTCP #1	4	UE	4
Sub-total	24	Sub-total	26
Semester 3	Semester 4		
BN2201 Quantitative Physiology for Bioengineers	4	NUS Overseas College (NOC) experience (20 units)*	20
BN2301 Biochemistry and Biomaterials for Bioengineers	4		
BN2403 Fundamentals of Biosignals and Bioinstrumentation	4		
BN3101A Biomedical Engineering Design	4		
EE2211 Introduction to Machine Learning	4		
UTCP #3	4		
CDE2501 Liveable Cities	4		
Sub-total	28	Sub-total	20
Semester 5	Semester 6		
BN4101 B.Eng Dissertation	4	BN4101 B.Eng Dissertation	4
Technical Elective	4	Technical Elective	4
UTCP #4	4	UE	4
CDE2000 Creating Narratives	4	UE	4
UE	4	UE	4
UE	4	UE	4
UE*	2		
Sub-total	26	Sub-total	24
			Grand total
			160

Notes:

1. If APT courses are not cleared, those courses must be cleared during the normal semesters

2. Important rules for NOC:

- You MUST be on campus the semester BEFORE going to NOC.

- You MUST have cleared at least 70 units before applying to NOC

3. *If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10 units) include:

a) EG3611A Industrial Attachment (10 units)

b) EG3612 Vacation Industrial Attachment (6 units) + EG2605 Undergraduate Research Opportunity (4 units)

c) EG3612 Vacation Industrial Attachment (6 units) + CFG2101 NUS Vacation Internship Programme (4 units) Note that EG3612 and EG3611A can be done as long as you have cleared 60 units.

d) EG2401A Engineering Professionalism (2 Units)

Note that UROP (EG2605) may be taken in any regular semester or special term as long as you are at seniority 2.

4. If you wish to read Common Curriculum courses before your department's recommended semester, please submit an appeal or select the courses

- courses that may be selected from Round 2: PF1101, CDE2501, ES2631 (if not doing UTCP)

- courses that require appeal: EG2401A, DTK1234, GEA1000, EG1311, CDE2000, EE2211, IE2141 (if not staying in RC4) Please refer to the CDE common curriculum wiki for more info on common course pre-allocation and registration issues.

<https://wiki.nus.edu.sg/display/eng/Pre-allocation+and+Registration+for+Common+Courses+in+CDE>