## **Engineering Science Programme**

## AY2023 cohort

Accurate as of June 2023

Accurate as of June 2023	3-vea	rs schedule (ESP)	
		r 0 (APT)	
EG1311 Design and Make		. • ( /	T 4
MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)		4	
MA2001 Linear Algebra I (maps to MA1508E)		4	
CS1010E Programming Methodology			4
Sub-total			16
Semester 1		Semester 2	1.0
ESP2107 Numerical Methods and Statistics	4	GEA1000 Quantitative Reasoning	4
ESP1111 Engineering Principles In-Action	4	DTK1234 Design Thinking	4
MA1512 Differential Equations for Engineering	2	EE2211 Introduction to Machine Learning	4
UTCP #1	4	PF1101 Fundamentals of Project Management	4
UE	4	ESP2111 Sensor System Electronics	4
UE	4	ESP2110 Design Project	4
		UTCP #2	4
Sub-total	22	Sub-total	28
Semester 3		Semester 4	
ME2121 Engineering Thermodynamics & Heat Transfer	4		
	4		
ESP2106 Principles of Continua	4	NUS Overseas College (NOC) experience (20 units)*	20
CDE2501 Liveable Cities	4		
CDE2000 Creating Narratives	4		
Choose ONE * PC2020 Electromagnetics for Electrical Engineers * EE2023 Signals and Systems	4		
UTCP #3	4		
Sub-total Sub-total	24	Sub-total	20
Semester 5		Semester 6	
ESP4901 Research Project	4	ESP4901 Research Project	4
ESP3903 Major Design Project	4	PC2130B Applied Quantum Physics	4
UTCP #4	4	PC3235B Applied Solid State Physics	4
UE (or IE2141 if not staying at RC4)	4	UE	4
UE	4	UE	4
UE	4	UE	4
		EG2401A Engineering Professionalism	2
Sub-total	24	Sub-total	26
		Grand total	l 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.
  - 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 co
- courses that may be selected from Round 2: PF1101, EG2501, 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.

 $\underline{\text{https://wiki.nus.edu.sg/display/eng/Pre-allocation+and+Registration+for+Common+Courses+in+CDE}}$