Engineering Science Programme

AY2026 cohort (Jul 2026)

E-Scholars 3-years schedule (ESP)					
				Summer	Units
Maths requirement (8u)		Internship requirement (10u)		EG1311 Design and Make	4
If passed MA1505 APT -> MA1505 + MA1512 + MA1513		EG3611A Industrial Attachment		MA1505 Mathematics I	4
If passed MA1505&MA2001 APT -> MA1505+MA1512+MA2001		EG3612/ETP3205 + CDE2605		MA2001 Linear Algebra I	4
Else MA1511+MA1512+MA1508E		EG3612/ETP3205 + CDE2605R		CS1010E Programming	4
		EG3612/ETP3205 + CFG2101			
		1 sem NOC (~20u)			16
Semester 1	Units	**Semester 2**	Units	**Summer**	Units
MA1512 Differential Equations for Engineering	2	ESP2111 Sensor System Electronics	4	CFG2101 NUS Vacation Internship Programme	4
ESP1111 Engineering Principles In-Action	4	ESP2110 Design Project	4		
ESP3106 Principles of Continua	4	PC2020 Electromagnetics for Electrical Engineers	4		
DTK1234 Design Thinking	4	EE2023 Signals and Systems	4		
PF1101A Fundamentals of Project Management and Finance	4	GEA1000 Quantitative Reasoning	4		
UTCP #1	4	UTCP #2	4		
UE	4	UE*	2		
Sub-total	26	**Sub-total**	26	**Sub-total**	4
Semester 3	Units	**Semester 4**	Units	**Summer**	Units
ME2121 Engineering Thermodynamics & Heat Transfer	4	PC3235B Applied Solid State Physics	4	EG3612 Vacation Industrial Attachment	6
EE3331C OR ME3142 Feedback Control Systems	4	PC2130B Applied Quantum Physics	4		
EE2211 Introduction to Machine Learning ***or*** EE2213 Introduction to Artificial Intelligence	4	ESP2107 Numerical Methods and Statistics	4		
		UTCP #4	4		
EG2401A Engineering Professionalism	2	UE	4		
UTCP #3	4	UE	4		
UE	4				
UE	4				
Sub-total	26	**Sub-total**	24	**Sub-total**	6
Semester 5	Units	**Semester 6**	Units		
ESP4901 Research Project	4	ESP4901 Research Project	4		
ESP4902 Major Design Project	4	UE	4		
ESP3201A Machine Learning in Engineering Science	4	UE	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,MA1508E,CS1010E) must be cleared during the normal semesters
2. Special internship couse 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 - qradmin@nus.edu.sg