Electrical Engineering

AY2025 cohort

Accurate as of July 2025

E-Scholars	3-ye	ars schedule (EE)			
Se	mest	er 0 (APT)			
G1311 Design and Make					
MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)					
MA2001 Linear Algebra I (maps to MA1508E)					
CS1010E Programming Methodology					
Sub-total					
Semester 1		Semester 2			
EE1111A Electrical Engineering Principles & Practice I	4	EE2111A Electrical Engineering Principles & Practice II	4		
MA1512 Differential Equations for Engineering	2	PC2020 Electromagnetics for Electrical Engineers			
UTCP #1	4	EE2012 Analytical Methods in ECE			
PF1101A Project Management and Finance	4	GEA1000 Quantitative Reasoning			
DTK1234 Design Thinking	4	EE2023 Signals & Systems			
UE	4	UTCP #2			
UE*	2	EE2211 Introduction to Machine Learning or	4		
	┢	EE2213 Introduction to Artificial Intelligence	\vdash		
Sub-total	24	Sub-total	28		
Semester 3		Semester 4			
EE2022 Electrical Energy Systems*	4				
EE2028 Microcontroller Programming and Interfacing	4				
EE2027 Electronics Circuits*	4				
EE2026 Digital Design	4	NUS Overseas College (NOC) experience (20 units)*			
UTCP #3 (Replaces CDE2501)	4				
UE	4				
Sub-total Sub-total	24	Sub-total	20		
Semester 5		Semester 6			
EE4002D Design Capstone or EE4002R Research Capstone	_	EE4002D Design Capstone or EE4002R Research Capstone	4		
EE3033 Systems Integration and Design Lab	4	UE	4		
Extended Core Technical Elective	4	UE	4		
Technical Elective	4	UE	4		
UTCP #4	4	UE	4		
UE	4	Technical Elective	4		
	104		24		
Sub-total	_	Sub-total	_		
Grand tota			160		

- 1. If APT courses are not cleared, those courses (EG1311, MA1511,MA2001,CS1010E) must be cleared during the normal semesters
- Important rules for NOC:
 You MUST be in Singapore for Visa processing the semester BEFORE going to NOC.
- Vou MUST have cleared at least 70 units before applying to NOC.

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

 a) EG3611A Industrial Attachment (10 units)
- b) EG3612 Vacation Industrial Attachment / ETP3205 Innovation & Enterprise Internship (6 units) + CDE2605 Undergraduate Research Opportunity (4
- C) EG3612 Vacation Industrial Attachment / ETP3205 Innovation & Enterprise Internship (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) EG3612 Vacation Industrial Attachment / ETP3205 Innovation & Enterprise Internship (6 units) + CDE2605R Undergraduate Research Experience (4
- e) EG3612 Vacation Industrial Attachment / ETP3205 Innovation & Enterprise Internship (6 units) + CDE2605R Undergraduate Research Experience (4 units)

Note that UROP (CDE2605) 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 from Round 2.
- courses that require appeal: DTK1234, GEA1000, please email: DTK1234 dtk1234@nus.edu.sg

GEA1000 - qradmin@nus.edu.sg

*For students who plan to pursue the Advanced Electronics (AE), Microelectronics & Quantum Materials (MQM), Internet of Things (IoT) specializations, please note that EE2027 is required/prerequisite to specialization core.

*For students who plan to pursue the Sustainable Electric Transportation (SET) specialization, please note that EE2022 is prequisite to specialization core.