

Mechanical Engineering

AY2025 cohort

Accurate as of July 2025

E-Scholars 3-years schedule (ME)			
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	
PF1101A Project Management and Finance	4	GEA1000 Quantitative Reasoning	4
ME1103 Principles of Mechanics and Materials	4	DTK1234 Design Thinking	4
MA1512 Differential Equations for Engineering	2	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
MA1513 Linear Algebra with Differential Equations	2	ME2102 Engineering Innovation and Modelling	4
UTCP #1	4	ME2105 Principles of Mechatronics and Automation	4
UE	4	UE	4
UE	4	UTCP #2	4
Sub-total	24	Sub-total	28
Semester 3		Semester 4	
ME2162 Manufacturing Processes	4	NUS Overseas College (NOC) experience (20 units)*	20
ME2121 Engineering Thermodynamics and Heat Transfer	4		
ME2134 Fluid Mechanics I	4		
ME2116 Mechanics of Materials	4		
UTCP #3 (replaces CD2501)	4		
UE	4		
Sub-total	24	Sub-total	20
Semester 5		Semester 6	
ME4101A B.Eng Dissertation	4	ME4101A B.Eng Dissertation	4
ME3115 Mechanics of Machines	4	Technical Elective	4
UTCP #4	4	Technical Elective	4
ME3123 Applied Thermofluids	4	Technical Elective	4
ME3142 Feedback Control Systems	4	UE	4
UE	4	UE	4
UE*	2	UE*	2
Sub-total	26	Sub-total	26
Grand total			160

Notes:

1. If APT courses are not cleared, those courses (EG1311, MA1505, CS1010E) must be cleared during the normal semesters

2. 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

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 units)

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 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