Industrial Systems Engineering

AY2023 cohort

Accurate as of June 2023

E-Scholars 3-years schedule (ISE)				
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
MA2001 Linear Algebra I (maps to MA1508E)				4
CS1010E Programming Methodology				4
Sub-total				16
Semester 1		**Semester 2**		
MA1512 Differential Equations for Engineering	2	ST2334 Probability and Statistics		4
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II		4
UTCP #1	4	IE2100 Probability Models with Applications		4
UE	4	DTK1234 Design Thinking		4
UE	4	EE2211 Introduction to Machine Learning		4
UE	4	PF1101 Fundamentals of Project Management		4
		UTCP #2		4
Sub-total	22	**Sub-total**		28
Semester 3		**Semester 4**		
IE2110 Operations Research I	4	NUS Overseas College (NOC) experience (20 units)*		20
IE3101 Statistics for Engineering Applications	4			
IE3110R Simulation	4			
CS2040 Data Structures and Algorithms	4			
UTCP #3	4			
UE (or IE2141 if not staying at RC4)	4			
Sub-total	24	**Sub-total**		20
Semester 5		**Semester 6**		
IE3100R Systems Design Project	4	IE3100R Systems Design Project		4
Technical Elective	4	Technical Elective		4
UTCP #4	4	CDE2000 Creating Narratives		4
UE	4	CDE2501 Liveable Cities		4
UE	4	UE		4
UE	4	UE		4
EG2401A Engineering Professionalism	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.
    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 from Round
 - 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.
https://wiki.nus.edu.sg/display/eng/Pre-allocation+and+Registration+for+Common+Courses+in+CDE