

Industrial Systems Engineering (To be confirmed)

AY2021 cohort

E-Scholars 3-years schedule (ISE)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 MC but it is mapped to MA1511 which is 2 MC)			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	DTK1234 Design Thinking	4
UE	4	EE2211 Introduction to Machine Learning	4
UTCP #1	4	PF1101 Fundamentals of Project Management	4
UE	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
UE	4	IE2100 Probability Models with Applications	4
		UTCP #2	4
Sub-total	22	Sub-total	28
Semester 3		Semester 4	
IE2110 Operations Research I	4	Three options:	20
IE3101 Statistics for Engineering Applications	4	1. NOC experience (20 MC) mappable to EG3611A (10 MC) + 10 MCs UE	
IE3110R Simulation	4	2. EG3611A (10 MCs) + EG3611B (2 MCs) + 8 MCs UE	
UTCP #3 (IE2141 Systems Thinking and Dynamics)	4	3. EG3612 (Vacation Industrial Attachment) + EG2605 (Undergraduate Research Opportunity, UROP) + 10 MC UE	
CS2040 Data Structures and Algorithms	4	Note that option 2 can be done in Semester 3 as well	
UE (or IE2141 if not staying at RC4)	4	Note that, for option 3, UROP can be done in Semester 3 as well.	
EG2101 Pathways to engineering Leadership	2		
Sub-total	26	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	Xxxx Creating Narratives	4
UE	4	EG2501 Liveable Cities	4
UE	4	UE	4
Technical Elective	4	UE	4
Sub-total	24	Sub-total	24
Grand total			160

Notes:

- If APT modules are not cleared, those modules must be cleared during the normal semesters
- Important rules for NOC:
 - You MUST be on campus the semester BEFORE going to NOC.
 - You MUST have cleared at least 70 MC before applying to NOC