



# PROGRAM PLAN

## BACHELOR OF MECHANICAL ENGINEERING (HONOURS)

**START DATE:**  
2018 - 2020

**LOCATION:**  
Singapore

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)  
 [COURSE HANDBOOK](#)

### COURSE STATUS KEY

**C** = Completed

**En** = Enrolled

**NS** = Not Started

YEAR 1	TRIMESTER 3	ENGG1003 Introduction to Procedural Programming CORE	ENGG1500 Introduction to Professional Engineering CORE	MATH1110 Mathematics for Engineering, Science and Technology 1 CORE	PHYS1210 Advanced Physics I CORE	TRIMESTER 1	CIVL1100 Fundamentals of Engineering Mechanics CORE	MECH1110 Introduction to Mechanical Engineering Design CORE	ELEC1310 Introduction to Electrical Engineering CORE	MATH1120 Mathematics for Engineering, Science and Technology 2 CORE	TRIMESTER 2	MECH2110 Mechanical Engineering Design 1 CORE	MECH2360 Dynamics of Machines CORE	MECH2250 Materials Science and Engineering 1 CORE	MATH2310 Calculus of Science and Engineering CORE				
		YEAR 2	TRIMESTER 3	MECH2430 Mechanics of Solids 1 CORE	MECH2450 Engineering Computations 2 CORE		MECH2710 Fluid Mechanics 1 CORE	ENGG2440 Modelling and Control CORE	TRIMESTER 1	MECH3110 Mechanical Engineering Design 2 CORE		MECH3695 Heat Transfer CORE	ENGG2500 Sustainable Engineering Practice CORE	ELECTIVE	TRIMESTER 2	MECH3400 Materials Science and Engineering 2 CORE	MECH3720 Thermodynamics CORE	MECH3780 Fluid Mechanics 2 and CFD CORE	ELECTIVE
				YEAR 3	TRIMESTER 3		MECH4841A Mechanical Engineering Project A CORE	MECH4410 Mechanics of Solids 2 and FEA CORE		ENGG3500 Managing Engineering Projects CORE		ELECTIVE	TRIMESTER 1	MECH4841B Mechanical Engineering Project B (20 units) CORE		ENGG4500 Engineering Complexity CORE	ELECTIVE		
		COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS																	

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To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 280 units
- Elective Pathway courses – 40 units. Visit the [Program Handbook](#) for more information
- Students must not exceed 120 units at 1000 level in this program and at least 40 units must be taken at each level from 2000 level and above
- It is also a requirement that students complete a total of 12 weeks of [industrial experience](#).
- The duration of this program is 3 years full-time (40 units per trimester) or part-time equivalent.
- The maximum time to complete this program is 10 years.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Program Advisor](#).