

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Mechanical & Materials Engineering (2350): Completion of pre-2021 program

IMPORTANT Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the [Programs and Courses Website](#) relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.

You must complete for the BE(Hons)/ME (Mechanical & Materials Engineering Plan code: MECMEX2350), 80 units comprising -

- 70 units being all courses from [part A](#) - compulsory; and
- 6 units from [part N](#) - electives; and
- 4 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean.

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/x compl	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
70 units, being all courses from Part A - compulsory							
	ENGG1100 Engineering Design (2) and ENGG1200 Engineering Modelling & Problem Solving (2) (discontinued) OR ENGG1211 Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	ENGG1100 Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2	
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2	2	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2	
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	ENGG1700 Statics & Materials	1,2	2	1/21
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Engineering Thermodynamics	1	2	
	MATH2000 Calculus & Linear Algebra II (discontinued) or MATH2001 Advanced Calculus & Linear Algebra II	2	2/21	MATH2001 Calculus & Linear Algebra II	1,2,S	1,2	
	MECH2300 Structures & Materials	2		MECH2300 Structures & Materials	1	2	
	MECH2305 Introduction to Engineering Design and Manufacturing	2		MECH2305 Introduction to Engineering Design and Manufacturing	1	2	
	MECH2410 Fundamentals of Fluid Mechanics	2		MECH2410 Fundamentals of Fluid Mechanics	1	2	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2	
	MECH2100 Machine Element Design	2		MECH2100 Machine Element Design	2	2	
	MECH2210 Intermediate Mechanical & Space Dynamics	2		MECH2210 Dynamics I	2	2	

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	MECH2310 Science & Engineering of Metals	2		MECH2310 Science & Engineering of Metals	2	2	
	MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Engineering & Scientific Data	2		MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Engineering & Scientific Data	1,2	2	
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	1/22	MECH3780 Computational Mechanics	1	1	1/23
	MECH3400 Thermodynamics & Heat Transfer	2		MECH3400 Thermodynamics & Heat Transfer	1	2	
	MECH3600 Engineering Management & Communication (discontinued)	2	1/22	MECH3610 Systems Engineering Principles	1	1	1/23
	MECH3100 Mechanical Systems Design	2		MECH3100 Systems Engineering Practice	2	2	
	MECH3200 Advanced Dynamics & Vibrations	2		MECH3200 Advanced Dynamics & Vibrations	2	2	
	MECH3301 Materials Selection	2		MECH3301 Materials Selection	2	2	
	MECH3410 Fluid Mechanics	2		MECH3410 Fluid Mechanics	2	2	
	CHEE3301 Polymer Engineering	2		CHEE3301 Polymer Engineering	1	2	
	ENGG4900 Professional Practice and the Business Environment (discontinued)	2	2/23	ENGG4901 Professional Practice and the Business Environment A Or ENGG4902 Professional Practice and the Business Environment B	1,2	2	1/24
	MECH4304 Net Shape Manufacturing	2		MECH4304 Net Shape Manufacturing	1	2	
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1	1	2	
	ENGG7290 Engineering Placement Semester (discontinued)	8	2/22	ENGG7292 Engineering Placement B	2	8	2/23
	MATE7001 Environmental Performance of Materials	2		MATE7001 Environmental Performance of Materials	1	2	
	MATE7013 Advanced Manufacturing	2		MATE7013 Advanced Manufacturing	1	2	
	AERO4300 Aerospace Composites	2		AERO4300 Aerospace Composites	2	2	
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2	
	MATE7015 Additive Manufacturing	2		MATE7015 Additive Manufacturing	2	2	

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✓/✗ compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEE4301 Nanomaterials (discontinued)	2	2/20	MATE6301 Nanomaterials	2	2	2/21
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	2/20	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21
	ENGG4103 Engineering Asset Management	2		ENGG4103 Engineering Asset Management	1	2	
	ENGY4000 Energy Systems	2		ENGY4000 Energy Systems	1	2	
	ENGY7210 Frontiers in Renewable Energy Technologies (discontinued)	2	2/20	ENGY7210 Frontiers in Renewable Energy Technologies (discontinued)	2	2	
	MATE7014 Advanced Materials Characterization	2		MATE7014 Advanced Materials Characterization	2	2	
	MATE7016 Materials for Energy Conversion and Storage	2		MATE7016 Materials for Energy Conversion and Storage	1	2	
	METR3100 Control System Implementation	2		METR3100 Control System Implementation	1	2	

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