

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Mechanical 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 Engineering Plan code: MECENX2350), 80 units comprising –

- 58 units being all courses from [part A](#) - compulsory; and
- 16 units from a combination of parts [B3](#) and [N - electives](#); and
- 6 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with
 - a maximum of 4 units from [part B0](#); and
 - a maximum of 4 units of level one courses not on the BE(Hons)/ME list.

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
58 units 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	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	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	
	MECH2100 Machine Element Design	2		MECH2100 Machine Element Design	2	2	

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	MECH2210 Intermediate Mechanical & Space Dynamics	2		MECH2210 Dynamics I	2	2	
	MECH2700 Computational Engineering & Data Analysis	2		MECH2700 Engineering Analysis I	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	
	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
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	1/22	MECH3780 Computational Mechanics	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	
	MECH3410 Fluid Mechanics	2		MECH3410 Fluid Mechanics	2	2	
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1	1	2	
	METR7203 Control Engineering 2 (discontinued)	2	1/20	METR6203 Control Engineering 2	1	2	1/21
	ENGG7290 Engineering Placement Semester (discontinued)	8	2/22	ENGG7291 Engineering Placement A	1	8	1/23
	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
	ENGG7701 Engineering Grand Challenges	2		ENGG7701 Engineering Grand Challenges	2	2	
	16 units from a combination of parts B3 and N - electives			16 units from a combination of parts B3 and N - electives			

✓/x compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEM1090 Introductory Chemistry	2		CHEM1090 Introductory Chemistry	1	2	
	MATH1050 Mathematical Foundations	2		MATH1050 Mathematical Foundations	1,2	2	
	PHYS1171 Physical Basis of Biological Systems	2		PHYS1171 Physical Basis of Biological Systems	1,2	2	

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✓/X compl.	Part B3 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	ENGY4000 Energy Systems	2		ENGY4000 Energy Systems	1	2	
	MECH3250 Engineering Acoustics	2		MECH3250 Engineering Acoustics	2	2	
	MECH3750 Engineering Analysis II (discontinued)	2	2/22	If MECH2700 & MECH3780 completed, then exemption – advanced Mech Eng elective to be taken in lieu		2	
	METR3100 Control System Implementation	2		METR3100 Control System Implementation	1	2	

✓/X compl.	Part N - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	AERO4300 Aerospace Composites	2		AERO4300 Aerospace Composites	2	2	
	AERO4450 Aerospace Propulsion	2		AERO4450 Aerospace Propulsion	1	2	
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	2/20	MATE4302 Electrochemistry and Corrosion	2	2	2/21
	CHEE7601 Nanomaterials (discontinued)	2	2/20	MATE6301 Nanomaterials	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	2		ENGY7210 Frontiers in Renewable Energy Technologies	2	2	
	MATE7013 Advanced Manufacturing	2		MATE7013 Advanced Manufacturing	1	2	
	MATE7014 Advanced Materials Characterization	2		MATE7014 Advanced Materials Characterization	2	2	
	MATE7015 Additive Manufacturing	2		MATE7015 Additive Manufacturing	2	2	
	MATE7016 Materials for Energy Conversion and Storage	2		MATE7016 Materials for Energy Conversion and Storage	1	2	
	MECH6480 Computational Fluid Dynamics	2		MECH6480 Computational Fluid Dynamics	2	2	
	MECH7101 Design of Experiments	2		MECH7101 Design of Experiments	2	2	

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