CHECKLIST Bachelor of Engineering (Honours) – Mechanical & Materials Engineering (2342): 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) (Mechanical & Materials Engineering Plan code: MECMAW2342), 64 units comprising –

(i) 58 units, being all courses from part A – compulsory (listed below), and
(ii) 2 units from part B4 - advanced electives, and
(iii) 4 units from electives

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	
	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	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	
	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	1 1		**MATH2010** Analysis of Ordinary Differential Equations AND **STAT2201** Analysis of Engineering & Scientific Data	1,2 1,2	1 1	
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	**1/22**	**MECH3780** Computational Mechanics	1	2	**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	2	**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	
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	**2/20**	**MATE4302** Electrochemistry and Corrosion	2	2	**2/21**
	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	
	MECH4500 Engineering Thesis (discontinued) **MECH4501** Engineering Thesis (discontinued) **Or** **MECH4552** Major Design Project (discontinued)	4	**2/20** **2/20**	**ENGG4600** Engineering Thesis **ENGG4601** Engineering Thesis **or** **ENGG4552** Major Design Project	1 2 1,2	4	**2/20** **2/20**

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✓/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	

✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	BIOL1040 Cells to Organisms	2		**BIOL1040** Cells to Organisms	2	2	
	CHEE1001 Principles of Biological Engineering (discontinued)	2	**1/20**	**BIOE1001** Principles of Biomedical & Bioprocess Engineering	1	2	**1/21**
	CHEM1100 Chemistry 1	2		**CHEM1100** Chemistry 1	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		**CSSE1001** Introduction to Software Engineering OR **ENGG1001** Programming for Engineers	1,2	2	**1/21**
	ENGG1600 Introduction to Research Practices - The Big Issues	2		**ENGG1600** Introduction to Research Practices - The Big Issues	2	2	
	ENGG2000 Humanitarian Engineering	2		**ENGG2000** Humanitarian Engineering	2	2	
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		**ERTH1501** Earth Processes & Geological Materials for Engineers	1	2	
	PHYS1002 Electromagnetism and Modern Physics	2		**PHYS1002** Electromagnetism and Modern Physics (semester 2 only from 2022)	2	2	

✓/X compl.	Part B4 - Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	2 units from Part B4 - Advanced Electives						
	AERO4300 Aerospace Composites	2		**AERO4300** Aerospace Composites	2	2	
	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**

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