

CHECKLIST Bachelor of Engineering (Honours) – Mechanical & Materials Engineering (2342): Completion of pre-2021 program

Full name: _____ Student Number: _____ Date: _____

Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites have been met

You must complete for the BE(Hons) (Mechanical & Materials Engineering Plan code: MECMAW2342), 64 units comprising -

- 58 units, being all courses from part A – compulsory (listed below), and
- 2 units from part B4 - advanced electives, and
- 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	✓/X compl.
	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 (NEW)	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		

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): _____

	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, NEW	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 (NEW)	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	2		ENGG4900 Professional Practice and the Business Environment	1,2	2			
	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		
Part A units completed pre-2021:				Part A units to be substituted/completed:					
				Total Part A (must add up to 58 units):					

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	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		

Once you have completed the checklist, you may either email your checklist to the Faculty on enquiries@eit.uq.edu.au or book an appointment with an Academic Advisor directly.

BE(Hons) Transition Plan – Mechanical & Material continuation

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✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOL1040 Cells to Organisms	2		BIOL1040 Cells to Organisms	1,2	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 (NEW)	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)	1,2	2		

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