

CHECKLIST Bachelor of Engineering (Honours) – Mechanical 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 Engineering) - a Single Major (Plan code: MECHAX2342) or Extended Major (Plan code: MECHAY2342), or Major & Minor; 64 units comprising -

- a major - 52 units, comprising-
 - (i) 50 units, being all courses from part A (listed below); and
 - (ii) 2 units from part B - advanced electives; and;
- b. 12 units from electives
 - (i) a minimum of 4 units from courses on the BE(Hons) list, other than courses on the Mechanical Engineering part B0 list, and
 - (ii) a maximum of 4 units from courses on the Mechanical Engineering part B0 list, and
 - (iii) a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- a. an extended major - 60 units, comprising-
 - (i) 50 units, being all courses from part A - compulsory; and
 - (ii) 2 units from part B3 – year 3 or 4 electives; and
 - (iii) 8 units from part B electives under Extended Major for courses not already counted in part B3; and
- b. 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.
	46 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	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		
	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	2		

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): _____

	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			
	MECH2210 Intermediate Mechanical & Space Dynamics	2		MECH2210 Dynamics I	2	2			
	MECH2700 Engineering Analysis I	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	1			
	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		
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	1/22	MECH3780 Computational Mechanics, 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			
	MECH3410 Fluid Mechanics	2		MECH3410 Fluid Mechanics	2	2			
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1	1	2			
	ENGG4900 Professional Practice and the Business Environment	2		ENGG4900 Professional Practice and the Business Environment	1,2	2			
	MECH4500 Engineering Thesis (discontinued) MECH4501 Engineering Thesis (discontinued) ENGG4011 Professional Engineering Project (6) (discontinued) OR MECH4552 Major Design Project (discontinued)	4 4 6 4	2/20 2/20 2/20	ENGG4600 Engineering Thesis ENGG4601 Engineering Thesis ENGG4013 Professional Engineering Project (NEW) (4) OR ENGG4552 Major Design Project	1 2 1,2 2	4	1/21 2/21 TBA 2/21		
Part A units completed pre-2021:				Part A units to be substituted/completed:					
				Total Part A (must add up to 46 units):					

Extended Major

If you are enrolled in the extended major, you must enrol in an additional 8 units from introductory or advanced electives from Part B1 or B2, including a minimum of 6 units from Part B2.

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 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.
	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		
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	1,2	2		

✓/X compl.	Part B2 – 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		
	AERO4450 Aerospace Propulsion	2		AERO4450 Aerospace Propulsion	1	2		
	AERO4470 Hypersonics	2		AERO4470 Hypersonics	1	2		
	AERO4800 Space Engineering	2		AERO4800 Space Engineering	1	2		
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	2/20	MATE4302 Electrochemistry and Corrosion	2	2	2/21	
	ELEC2003 Electromechanics & Electronics (discontinued)	2	1/21	ELEC2300 Electromagnetism and Electromechanics (NEW)	1	2	1/22	
	ENGG4103 Engineering Asset Management	2		ENGG4103 Engineering Asset Management	1	2		
	ENGY4000 Energy Systems	2		ENGY4000 Energy Systems	1	2		
	FIRE3700 Introduction to Fire Safety Engineering	2		FIRE3700 Introduction to Fire Safety Engineering	1	2		
	MECH2310 Science & Engineering of Metals	2		MECH2310 Science & Engineering of Metals	2	2		
	MECH3250 Engineering Acoustics	2		MECH3250 Engineering Acoustics	2	2		

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	MECH3301 Materials Selection	2		MECH3301 Materials Selection	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	
	MECH4304 Net Shape Manufacturing	2		MECH4304 Net Shape Manufacturing	1	2		
	MECH4950 Advanced Manufacturing in Practice	2		MECH4950 Advanced Manufacturing in Practice	2	2		
	MECH4951 Special Topics D (discontinued)	1		Any BE Elective				
	MECH6480 Computational Fluid Dynamics	2		MECH6480 Computational Fluid Dynamics	2	2		
	METR3100 Control System Implementation	2		METR3100 Control System Implementation	1	2		
	METR4202 Robotics & Automation	2		METR4202 Robotics & Automation	2	2		
	PHYS2082 Space Science & Stellar Astrophysics	2		PHYS2082 Space Science & Stellar Astrophysics	2	2		
	TIMS3309 Fundamentals of Technology and Innovation Management	2		TIMS3309 Fundamentals of Technology and Innovation Management	2	2		

✓/X compl.	Part B3 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	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		

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