

# CHECKLIST Bachelor of Engineering (Honours) – Mechanical & Aerospace 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 & Aerospace Engineering Plan code: MEAERW2342), 64 units comprising -

- 56 units, being all courses from part A – compulsory (listed below), and
- 4 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.
	56 units from: Part A – compulsory							
	<b>ENGG1100</b> Engineering Design (2) and <b>ENGG1200</b> Engineering Modelling & Problem Solving (2) (discontinued) OR <b>ENGG1211</b> Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	2/20 2/20	<b>ENGG1100</b> Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2		
	<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	2		<b>MATH1051</b> Calculus & Linear Algebra I OR <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2	2		
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	2		<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations OR <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	<b>ENGG1700</b> Statics & Materials (NEW)	1,2	2	1/21	
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Engineering Thermodynamics	1	2		
	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2		
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued) or <b>MATH2001</b> Advanced Calculus & Linear Algebra II	2	2/21	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	1,2		
	<b>MECH2300</b> Structures & Materials	2		<b>MECH2300</b> Structures & Materials	1	2		
	<b>MECH2305</b> Introduction to Engineering Design and Manufacturing	2		<b>MECH2305</b> Introduction to Engineering Design and Manufacturing	1	2		
	<b>MECH2410</b> Fundamentals of Fluid Mechanics	2		<b>MECH2410</b> Fundamentals of Fluid Mechanics	1	2		
	<b>MECH2100</b> Machine Element Design	2		<b>MECH2100</b> Machine Element Design	2	2		
	<b>MECH2210</b> Intermediate Mechanical & Space Dynamics	2		<b>MECH2210</b> Dynamics I	2	2		

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): \_\_\_\_\_

	<b>MECH2700</b> Computational Engineering & Data Analysis	2		<b>MECH2700</b> Engineering Analysis I	2	2			
	<b>MATH2010</b> Analysis of Ordinary Differential Equations AND <b>STAT2201</b> Analysis of Engineering & Scientific Data	1 1		<b>MATH2010</b> Analysis of Ordinary Differential Equations AND <b>STAT2201</b> Analysis of Engineering & Scientific Data	1,2 1,2	1 1			
	<b>MECH3400</b> Thermodynamics & Heat Transfer	2		<b>MECH3400</b> Thermodynamics & Heat Transfer	1	2			
	<b>MECH3600</b> Engineering Management & Communication (discontinued)	2	1/22	<b>MECH3610</b> Systems Engineering Principles (NEW)	1	2	1/23		
	<b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued)	2	1/22	<b>MECH3780</b> Computational Mechanics, NEW	1	2	1/23		
	<b>MECH3100</b> Mechanical Systems Design	2		<b>MECH3100</b> Systems Engineering Practice	2	2			
	<b>MECH3200</b> Advanced Dynamics & Vibrations	2		<b>MECH3200</b> Advanced Dynamics & Vibrations	2	2			
	<b>MECH3410</b> Fluid Mechanics	2		<b>MECH3410</b> Fluid Mechanics	2	2			
	<b>MECH3750</b> Engineering Analysis II (discontinued)	2	2/22	If <b>MECH2700</b> & <b>MECH3780</b> completed, then exemption – <b>advanced Mech Eng elective to be taken in lieu</b>		2			
	<b>AERO4100</b> Aero Design and Manufacturing	2		<b>AERO4100</b> Aero Design and Manufacturing	2	2			
	<b>AERO4450</b> Aerospace Propulsion	2		<b>AERO4450</b> Aerospace Propulsion	1	2			
	<b>ENGG4900</b> Professional Practice and the Business Environment	2		<b>ENGG4900</b> Professional Practice and the Business Environment	1,2	2			
	<b>METR4201</b> Control Engineering 1	2		<b>METR4201</b> Control Engineering 1	1	2			
	<b>ENGG4011</b> Professional Engineering Project (6) (discontinued) or <b>MECH4500</b> Engineering Thesis (discontinued) or <b>MECH4501</b> Engineering Thesis (discontinued) or <b>MECH4552</b> Major Design Project (discontinued)	6	2/20 2/20 2/20	<b>ENGG4013</b> Professional Engineering Project or <b>ENGG4600</b> Engineering Thesis or <b>ENGG4601</b> Engineering Thesis or <b>ENGG4552</b> Major Design Project	1 2 1,2	4			
	4 units from part B4 - advanced electives			4 units from part B4 - advanced electives					
<b>Part A units completed pre-2021:</b>				<b>Part A units to be substituted/completed:</b>					
				<b>Total Part A (must add up to 56 units):</b>					

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	<b>CHEM1090</b> Introductory Chemistry	2		<b>CHEM1090</b> Introductory Chemistry	1	2		
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations	1,2	2		
	<b>PHYS1171</b> Physical Basis of Biological Systems	2		<b>PHYS1171</b> 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](mailto:enquiries@eit.uq.edu.au) or book an appointment with an Academic Advisor directly.

**BE(Hons) Transition Plan – Mechanical & Aerospace 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.
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2		
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering	1,2	2		
	<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2		<b>ENGG1600</b> Introduction to Research Practices - The Big Issues	2	2		
	<b>ENGG2000</b> Humanitarian Engineering	2		<b>ENGG2000</b> Humanitarian Engineering	2	2		
	<b>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		

✓/X compl.	4 units from: Part B4 - Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	<b>AERO4200</b> Flight Mechanics & Avionics	2		<b>AERO4200</b> Flight Mechanics & Avionics	1	2		
	<b>AERO4300</b> Aerospace Composites	2		<b>AERO4300</b> Aerospace Composites	2	2		
	<b>AERO4470</b> Hypersonics	2		<b>AERO4470</b> Hypersonics	1	2		
	<b>AERO4800</b> Space Engineering	2		<b>AERO4800</b> Space Engineering	1	2		
	<b>MECH6480</b> Computational Fluid Dynamics	2		<b>MECH6480</b> Computational Fluid Dynamics	2	2		

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