

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

- (i) 56 units, being all courses from [part A](#) – compulsory (listed below), and
- (ii) 4 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
56 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	

Once you have completed the BE(Hons) Transition Plan – Mechanical & Aerospace continuation checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

	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	1 1		MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Engineering & Scientific Data	1,2 1,2	1 1	
	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
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	1/22	MECH3780 Computational Mechanics	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	
	MECH3750 Engineering Analysis II (discontinued)	2	2/22	If MECH2700 & MECH3780 OR MECH2700 & MECH3300 completed, then exemption – advanced Mech Eng elective to be taken in lieu		2	
	AERO4100 Aero Design and Manufacturing	2		AERO4100 Aero Design and Manufacturing	2	2	
	AERO4450 Aerospace Propulsion	2		AERO4450 Aerospace Propulsion	1	2	
	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
	METR4201 Control Engineering 1	2		METR4201 Control Engineering 1	1	2	
	ENGG4011 Professional Engineering Project (6) (discontinued) or MECH4500 Engineering Thesis (discontinued) or MECH4501 Engineering Thesis (discontinued) or MECH4552 Major Design Project (discontinued)	6	2/20 2/20 2/20	ENGG4013 Professional Engineering Project (discontinued) or ENGG4600 Engineering Thesis or ENGG4601 Engineering Thesis or ENGG4552 Major Design Project	1 2 1,2	4	
	4 units from part B4 - advanced electives			4 units from part B4 - advanced 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	

✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering	1,2	2	
	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	
	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
4 units from Part B4 - Advanced Electives							
	AERO4200 Flight Mechanics & Avionics	2		AERO4200 Flight Mechanics & Avionics	1	2	
	AERO4300 Aerospace Composites	2		AERO4300 Aerospace Composites	2	2	
	AERO4470 Hypersonics	2		AERO4470 Hypersonics	1	2	
	AERO4800 Space Engineering	2		AERO4800 Space Engineering	1	2	
	MECH6480 Computational Fluid Dynamics	2		MECH6480 Computational Fluid Dynamics	2	2	

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