CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Mechanical Engineering (2350): Completion of pre-2021 program

Full name:_____ Student Number:_____ Date:_____

You must complete for the BE(Hons)/ME (Mechanical Engineering Plan code: MECENX2350), 80 units comprising -

1. 58 units being all courses from part A - compulsory; and
2. 16 units from a combination of parts B3 and N - electives; and
3. 6 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with
   (i) a maximum of 4 units from part B0; and
   (ii) a maximum of 4 units of level one courses not on the BE(Hons)/ME list.

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		
	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		
	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	2		**MATH2010** Analysis of Ordinary Differential Equations AND **STAT2201** Analysis of Engineering & Scientific Data	1,2 1,2	2		

✓ - course already completed **X** – course to be undertaken

Checked by (Faculty: Name and Date): _____

	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	1	**1/23**	
	MECH3300 Finite Element Method & Fracture Mechanics (discontinued)	2	**1/22**	***MECH3780*** *Computational Mechanics (NEW)*	1	1	**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		
	METR7203 Control Engineering 2 (discontinued)	2	**1/20**	***METR6203*** *Control Engineering 2*	1	2	**1/21**	
	ENGG7290 Engineering Placement Semester	8		**ENGG7290** Engineering Placement Semester	1,2	8		
	ENGG4900 Professional Practice and the Business Environment	2		**ENGG4900** Professional Practice and the Business Environment	1,2	2		
	ENGG7701 Engineering Grand Challenges	2		**ENGG7701** Engineering Grand Challenges	2	2		
	16 units from a combination of parts B3 and N - electives			16 units from a combination of parts B3 and N - electives				
	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		

✓/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		

Once you have completed the 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.

Checked by (Faculty: Name and Date): _____

✓/X compl.	Part N - 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		
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	**2/20**	***MATE4302*** *Electrochemistry and Corrosion*	2	2	**2/21**	
	CHEE7601 Nanomaterials (discontinued)	2	**2/20**	***MATE6301*** *Nanomaterials*	2	2	**2/21**	
	ENGG4103 Engineering Asset Management	2		**ENGG4103** Engineering Asset Management	1	2		
	ENGY4000 Energy Systems	2		**ENGY4000** Energy Systems	1	2		
	ENGY7210 Frontiers in Renewable Energy Technologies	2		**ENGY7210** Frontiers in Renewable Energy Technologies	2	2		
	MATE7013 Advanced Manufacturing	2		**MATE7013** Advanced Manufacturing	1	2		
	MATE7014 Advanced Materials Characterization	2		**MATE7014** Advanced Materials Characterization	2	2		
	MATE7015 Additive Manufacturing	2		**MATE7015** Additive Manufacturing	2	2		
	MATE7016 Materials for Energy Conversion and Storage	2		**MATE7016** Materials for Energy Conversion and Storage	1	2		
	MECH6480 Computational Fluid Dynamics	2		**MECH6480** Computational Fluid Dynamics	2	2		
	MECH7101 Design of Experiments	2		**MECH7101** Design of Experiments	2	2		

Once you have completed the 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.

Checked by (Faculty: Name and Date): _____