

# CHECKLIST Bachelor of Engineering (Honours) – Chemical & Metallurgical 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) (Chemical & Metallurgical Engineering Plan code: CHMETW2342), 64 units comprising -

- (i) 56 units being all courses from part A - compulsory (listed below), and
- (ii) 4 units from a combination of parts B1, B2 and B4 - electives, and
- (iii) 4 units from electives

## PART A

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, 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 for replacement	1,2	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		
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2		
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Thermodynamics: Energy and the Environment	1,2	2		
	CHEE2001 Process Principles	2		CHEE2001 Process Principles	1,2	2		
	CHEM1200 Chemistry 2	2		CHEM1200 Chemistry 2	1,2,S	2		
	MATH2000 Calculus & Linear Algebra II (discontinued) OR MATH2001 Advanced Calculus & Linear Algebra II	2	2/20	MATH2001 Calculus & Linear Algebra II	1,2,S	2		
	CHEE2003 Fluid & Particle Mechanics	2		CHEE2003 Fluid & Particle Mechanics (will change to semester 1 in 2022)	2	2		
	CHEE2010 Engineering Investigation & Statistical Analysis	2		CHEE2010 Engineering Investigation & Statistical Analysis (will change to semester 1 in 2022)	2	2		
	CHEM2056 Physical Chemistry for Engineering	2		CHEM2056 Physical Chemistry for Engineering	1	2		
	MINE2201 Physical & Chemical Processing of Minerals	2		MINE2201 Metal Production and Recycling	2	2		

✓ - course already completed X – course to be undertaken

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	<b>CHEE3002 Heat &amp; Mass Transfer (discontinued)</b>	2	<b>1/22</b>	<b>CHEE2040 Heat &amp; Mass Transfer</b>	2	2	<b>2/22</b>	
	<b>CHEE3003 Chemical Thermodynamics (discontinued)</b>	2	<b>1/22</b>	<b>CHEE2030 Chemical Thermodynamics</b>	2	2	<b>2/22</b>	
	<b>CHEE3020 Process Systems Analysis</b>	2		<b>CHEE3020 Process Systems Analysis (will change to semester 2 in 2023)</b>	1	2		
	<b>MINE3219 Process Mineralogy and Comminution</b>	2		<b>MINE3219 Process Mineralogy and Comminution</b>	1	2		
	<b>CHEE3005 Reaction Engineering</b>	2		<b>CHEE3005 Reaction Engineering (will change to semester 1 in 2023)</b>	2	2		
	<b>CHEE3007 Process Modelling &amp; Dynamics</b>	2		<b>CHEE3007 Process Modelling &amp; Dynamics</b>	2	2		
	<b>MINE3208 Mineral and Coal Beneficiation</b>	2		<b>MINE3208 Physical Separation Processes</b>	2	2		
	<b>MINE3212 Pyrometallurgy</b>	2		<b>MINE3212 Pyrometallurgy</b>	2	2		
	<b>CHEE4002 Risk in Process Industries</b>	2		<b>CHEE4002 Risk in Process Industries</b>	1	2		
	<b>CHEE4060 Process &amp; Control System Synthesis (discontinued)</b>	2	<b>1/23</b>	<b>CHEE2020 Process Equipment &amp; Control Systems (NEW)</b>	2	2	<b>2/22</b>	
	<b>MINE4203 Flotation</b>	2		<b>MINE4203 Flotation</b>	1	2		
	<b>MINE4204 Aqueous Solution Processing &amp; Electrometallurgy</b>	2		<b>MINE4204 Hydrometallurgy and Electrometallurgy</b>	1	2		
	<b>ENGG4900 Professional Practice and the Business Environment</b>	2		<b>ENGG4900 Professional Practice and the Business Environment</b>	1,2	2		
	<b>MINE4201 Metallurgical Plant Design (discontinued)</b>	4	<b>2/23</b>	<b>CHEE4001 Process Engineering Design Project (from 2023)</b>	2	4		
<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>				

## PART 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 Introductory Chemistry</b>	2		<b>CHEM1090 Introductory Chemistry</b>	1	2		
	<b>MATH1050 Mathematical Foundations</b>	2		<b>MATH1050 Mathematical Foundations</b>	1,2	2		
	<b>PHYS1171 Physical Basis of Biological Systems</b>	2		<b>PHYS1171 Physical Basis of Biological Systems</b>	1,2	2		

Once you have completed the checklist, you may either email your checklist to the Faculty on [enquiries@eait.uq.edu.au](mailto:enquiries@eait.uq.edu.au) or book an appointment with an Academic Advisor directly.

**BE(Hons) Transition Plan – Chemical & Metallurgical Engineering 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>BIOL1040</b> Cells to Organisms	2		<b>BIOL1040</b> Cells to Organisms	1,2	2		
	<b>CHEE1001</b> Principles of Biological Engineering (discontinued)	2	1/20	<b>BIOE1001</b> Principles of Biomedical & Bioprocess Engineering	1	2	1/21	
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering	1,2	2		
	<b>ENGG1300</b> Introduction to Electrical Systems	2		<b>ENGG1300</b> Introduction to Electrical Systems	1,2	2		
	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	<b>ENGG1700</b> Statics and Materials	1,2	2	1/21	
	<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>ENVM1522</b> Carbon and Energy Management	2		<b>ENVM1522</b> Carbon and Energy Management	2	2		
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	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.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	<b>CHEE2501</b> Environmental Systems Engineering I: Processes (discontinued)	2	2/20	<b>ENVE2501</b> Environmental Systems	2	2	2/21	
	<b>CHEE3008</b> Special Topics C	2		<b>CHEE3008</b> Special Topics C	1,2	2		
	<b>CHEE4003</b> Special Topics A	2		<b>CHEE4003</b> Special Topics A	2	2		
	<b>CHEE4015</b> Special Topics VII (discontinued)	1	2/21	Any BE Elective				
	<b>ENVM3103</b> Regulatory Frameworks for Environmental Management & Planning	2		<b>ENVM3103</b> Regulatory Frameworks for Environmental Management & Planning	1	2		
	<b>ENVM3525</b> Sustainable Business Practice	2		<b>ENVM3525</b> Sustainable Business Practice	2	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>MECH2310</b> Science & Engineering of Metals	2		<b>MECH2310</b> Science & Engineering of Metals	2	2		
	<b>MINE2105</b> Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any BE Elective				
	<b>MINE3211</b> Special Topics in Minerals Processing II (discontinued)	2	2/20	Any BE Elective				
	<b>MINE4207</b> Special Topics in Minerals Processing I (discontinued)	1	2/20	Any BE Elective				

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✓/X compl.	Part B4 - Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEE4006 Individual Inquiry	2		CHEE4006 Research Project	1	2		
	CHEE4007 Individual Inquiry	2		CHEE4007 Research Project	2	2		
	CHEE4009 Transport Phenomena	2		CHEE4009 Transport Phenomena	1	2		
	CHEE4012 Industrial Wastewater & Solid Waste Management	2		CHEE4012 Industrial Wastewater & Solid Waste Management	2	2		
	CHEE4022 Principles of Adsorption	2		CHEE4022 Principles of Adsorption	2	2		
	CHEE4026 Thesis Project	4		CHEE4026 Research Thesis	1	4		
	CHEE4027 Thesis Project	4		CHEE4027 Research Thesis	2	4		
	CHEE4301 Nanomaterials (discontinued)	2	2/20	MATE6301 Nanomaterials	2	2	2/21	
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	2/20	MATE4302 Electrochemistry and Corrosion	2	2	2/21	
	CHEE4303 Interface and Colloid Science and Engineering	2		CHEE4303 Interface and Colloid Science and Engineering	1	2		
	ENGG3500 Reservoir Engineering	2		ENGG3500 Reservoir Engineering	2	2		
	ENGY4000 Energy Systems	2		ENGY4000 Energy Systems	1	2		
	MECH4304 Net Shape Manufacturing	2		MECH4304 Net Shape Manufacturing	1	2		

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