

# CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Chemical & Metallurgical Engineering (2350): 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)/ME (Chemical & Metallurgical Engineering Plan code: CHMETW2350), 80 units comprising -

- 70 units being all courses from part A – compulsory (listed below), and
- 4 units from part N – electives, and
- 6 units from electives, being courses on the BE(Hons)/ME list or other courses approved by the executive dean, with
  - a maximum of 4 units from part B0, and
  - a maximum of 4 units of level one courses not on the BE(Hons) list.

## 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.
	70 units, being all courses 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>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2		
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Thermodynamics: Energy and the Environment	1,2	2		
	<b>CHEE2001</b> Process Principles	2		<b>CHEE2001</b> Process Principles	1,2	2		
	<b>CHEM1200</b> Chemistry 2	2		<b>CHEM1200</b> Chemistry 2	1,2,S	2		
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued) OR <b>MATH2001</b> Advanced Calculus & Linear Algebra II	2	2/20	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2		
	<b>CHEE2003</b> Fluid & Particle Mechanics	2		<b>CHEE2003</b> Fluid & Particle Mechanics (moves to semester 1 in 2022)	2	2		
	<b>CHEE2010</b> Engineering Investigation & Statistical Analysis	2		<b>CHEE2010</b> Engineering Investigation & Statistical Analysis (moves to semester 1 in 2022)	2	2		
	<b>CHEM2056</b> Physical Chemistry for Engineering	2		<b>CHEM2056</b> Physical Chemistry for Engineering	1	2		

✓ - course already completed X – course to be undertaken

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

	<b>MINE2201</b> Physical & Chemical Processing of Minerals (discontinued)	2	2/21	<b>METL2201</b> Metal Production & Recycling	2	2	2/22	
	<b>CHEE3002</b> Heat & Mass Transfer (discontinued)	2	1/22	<b>CHEE2040</b> Heat & Mass Transfer	2	2	2/22	
	<b>CHEE3003</b> Chemical Thermodynamics (discontinued)	2	1/22	<b>CHEE2030</b> Chemical Thermodynamics	2	2	2/22	
	<b>CHEE3020</b> Process Systems Analysis	2		<b>CHEE3020</b> Process Systems Analysis (will change to semester 2 in 2023)	1	2		
	<b>MINE3219</b> Process Mineralogy and Comminution (discontinued)	2	1/21	<b>METL3219</b> Process Mineralogy and Comminution	1	2	1/22	
	<b>CHEE3005</b> Reaction Engineering	2		<b>CHEE3005</b> Reaction Engineering (will change to semester 1 in 2023)	2	2		
	<b>CHEE3007</b> Process Modelling & Dynamics	2		<b>CHEE3007</b> Process Modelling & Dynamics	2	2		
	<b>MINE3208</b> Physical Separation Processes (discontinued)	2	2/21	<b>METL3208</b> Physical Separation Processes	2	2	2/22	
	<b>MINE3212</b> Pyrometallurgy (discontinued)	2	2/21	<b>METL6212</b> Pyrometallurgy	2	2	2/22	
	<b>CHEE4009</b> Transport Phenomena	2		<b>CHEE4009</b> Transport Phenomena	1	2		
	<b>CHEE4060</b> Process & Control System Synthesis (discontinued)	2	1/23	<b>CHEE2020</b> Process Equipment & Control Systems (NEW)	2	2	2/22	
	<b>MINE4203</b> Flotation (discontinued)	2	1/21	<b>METL4203</b> Flotation	1	2	1/22	
	<b>MINE4204</b> Aqueous Solution Processing & Electrometallurgy (discontinued)	2	1/21	<b>METL6204</b> Hydrometallurgy and Electrometallurgy	2	2	1/22	
	<b>ENGG7290</b> Engineering Placement Semester (discontinued)	8	2/22	<b>ENGG7292</b> Engineering Placement A (NEW)	2	2	1/23	
	<b>CHEE4002</b> Risk in Process Industries	2		<b>CHEE4002</b> Risk in Process Industries	1	2		
	<b>CHEE7111</b> Advanced Process and System Modelling	2		<b>CHEE7111</b> Advanced Process and System Modelling	1	2		
	<b>CHEE7113</b> Whole of Process Optimisation and Control	2		<b>CHEE7113</b> Whole of Process Optimisation and Control	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>CHEE7103</b> Chemical Engineering ME Design Project	4		<b>CHEE7103</b> Chemical Engineering ME Design Project	2	4		
	<b>ENGG7701</b> Engineering Grand Challenges	2		<b>ENGG7701</b> Engineering Grand Challenges	2	2		
Part A units completed pre-2021:				Part A units to be substituted/completed:				
				Total – Part A (must add up to 70 units):				

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.

## PART B

✓/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 B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOL1040 Cells to Organisms	2		BIOL1040 Cells to Organisms	2	2		
	CHEE1001 Principles of Biological Engineering (discontinued)	2	1/20	BIOE1001 Principles of Biomedical & Bioprocess Engineering	1	2	1/21	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering	1,2	2		
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2		
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	ENGG1700 Statics and Materials	1,2	2	1/21	
	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		
	ENVM1522 Carbon and Energy Management	2		ENVM1522 Carbon and Energy Management	2	2		
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes & Geological Materials for Engineers	1	2		
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 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.
	CHEE2501 Environmental Systems Engineering I: Processes (discontinued)	2	2/20	ENVE2501 Environmental Systems	2	2	2/21	
	CHEE3008 Special Topics C	2		CHEE3008 Special Topics C	1,2	2		
	CHEE3301 Polymer Engineering	2		CHEE3301 Polymer Engineering	1	2		
	CHEE4003 Special Topics A	2		CHEE4003 Special Topics A	2	2		
	CHEE4015 Special Topics VII (discontinued)	1	2/21	Any BE Elective		1		
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	2		ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		
	ENVM3525 Sustainable Business Practice	2		ENVM3525 Sustainable Business Practice	2	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		
	MECH2310 Science & Engineering of Metals	2		MECH2310 Science & Engineering of Metals	2	2		
	MINE2105 Introduction to Mining and Mineral Processing (discontinued)	2	1/21	Any BE Elective				
	MINE3211 Special Topics in Minerals Processing II (discontinued)	2	2/20	Any BE Elective				

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BE(Hons)/ME Transition Plan – Chemical & Metallurgical Engineering continuation

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

	<b>MINE4207</b> Special Topics in Minerals Processing I (discontinued)	1	2/20	Any BE Elective				
	<b>TIMS3309</b> Fundamentals of Technology and Innovation Management	2		<b>TIMS3309</b> Fundamentals of Technology and Innovation Management	2	2		
✓/X compl.	Part B4 - Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	<b>CHEE4006</b> Individual Inquiry	2		<b>CHEE4006</b> Research Project	1	2		
	<b>CHEE4007</b> Individual Inquiry	2		<b>CHEE4007</b> Research Project	2	2		
	<b>CHEE4009</b> Transport Phenomena	2		<b>CHEE4009</b> Transport Phenomena	1	2		
	<b>CHEE4012</b> Industrial Wastewater & Solid Waste Management (discontinued)	2	2/22	<b>WATR6103</b> Advanced Wastewater and Biosolids Treatment	2	2	2/23	
	<b>CHEE4022</b> Principles of Absorption (discontinued)	2	2/22	Any Part B4 Elective	2	2		
	<b>CHEE4026</b> Thesis Project	4		<b>CHEE4026</b> Research Thesis	1	4		
	<b>CHEE4027</b> Thesis Project	4		<b>CHEE4027</b> Research Thesis	2	4		
	<b>CHEE4301</b> Nanomaterials (discontinued)	2	2/20	<b>MATE6301</b> Nanomaterials	2	2	2/21	
	<b>CHEE4302</b> Electrochemistry & Corrosion (discontinued)	2	2/20	<b>MATE4302</b> Electrochemistry and Corrosion	2	2	2/21	
	<b>CHEE4303</b> Interface and Colloid Science and Engineering (discontinued)	2	1/17	Any Part B4 Elective				
	<b>CHEE4305</b> Biomaterials: Materials in Medicine (discontinued)	2	2/20	<b>BIOE4305</b> Biomaterials: Materials in Medicine	2	2	2/21	
	<b>ENGG3500</b> Reservoir Engineering	2		<b>ENGG3500</b> Reservoir Engineering	2	2		
	<b>ENGY4000</b> Energy Systems	2		<b>ENGY4000</b> Energy Systems	1	2		
	<b>MECH4304</b> Net Shape Manufacturing	2		<b>MECH4304</b> Net Shape Manufacturing	1	2		

## PART N

✓/X compl.	4 units from: Part N – Electives (4 units total)	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	4 units from:							
	<b>CHEE7112</b> Integrated Safety Design and Management	2		<b>CHEE7112</b> Integrated Safety Design and Management	1	2		
	<b>CHEE7502</b> Sustainable Bioresource Engineering	2		<b>CHEE7502</b> Sustainable Bioresource Engineering	1	2		
	<b>ENVM7524</b> Carbon & Energy Management	2		<b>ENVM7524</b> Carbon & Energy Management	1,2	2		
	<b>MATE7001</b> Environmental Performance of Materials	2		<b>MATE7001</b> Environmental Performance of Materials	1	2		

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	<b>MATE7013</b> Advanced Manufacturing	2		<b>MATE7013</b> Advanced Manufacturing	1	2		
	<b>MATE7014</b> Advanced Materials Characterization	2		<b>MATE7014</b> Advanced Materials Characterization	2	2		
	<b>MATE7015</b> Additive Manufacturing	2		<b>MATE7015</b> Additive Manufacturing	2	2		
	<b>TIMS7317</b> Corporate Sustainability	2		<b>TIMS7317</b> Corporate Sustainability	1,2	2		

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