

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 -

1. 70 units being all courses from part A – compulsory (listed below), and
2. 4 units from part 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) 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							
	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		
	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 (moves to semester 1 in 2022)	2	2		
	CHEE2010 Engineering Investigation & Statistical Analysis	2		CHEE2010 Engineering Investigation & Statistical Analysis (moves to semester 1 in 2022)	2	2		
	CHEM2056 Physical Chemistry for Engineering	2		CHEM2056 Physical Chemistry for Engineering	1	2		

✓ - course already completed X – course to be undertaken

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MINE2201 Physical & Chemical Processing of Minerals (discontinued)	2	2/21	METL2201 Metal Production & Recycling	2	2	2/22	
CHEE3002 Heat & Mass Transfer (discontinued)	2	1/22	CHEE2040 Heat & Mass Transfer	2	2	2/22	
CHEE3003 Chemical Thermodynamics (discontinued)	2	1/22	CHEE2030 Chemical Thermodynamics	2	2	2/22	
CHEE3020 Process Systems Analysis	2		CHEE3020 Process Systems Analysis (will change to semester 2 in 2023)	1	2		
MINE3219 Process Mineralogy and Comminution (discontinued)	2	1/21	METL3219 Process Mineralogy and Comminution	1	2	1/22	
CHEE3005 Reaction Engineering	2		CHEE3005 Reaction Engineering (will change to semester 1 in 2023)	2	2		
CHEE3007 Process Modelling & Dynamics	2		CHEE3007 Process Modelling & Dynamics	2	2		
MINE3208 Physical Separation Processes (discontinued)	2	2/21	METL3208 Physical Separation Processes	2	2	2/22	
MINE3212 Pyrometallurgy (discontinued)	2	2/21	METL6212 Pyrometallurgy	2	2	2/22	
CHEE4009 Transport Phenomena	2		CHEE4009 Transport Phenomena	1	2		
CHEE4060 Process & Control System Synthesis (discontinued)	2	1/23	CHEE2020 Process Equipment & Control Systems (NEW)	2	2	2/22	
MINE4203 Flotation (discontinued)	2	1/21	METL4203 Flotation	1	2	1/22	
MINE4204 Aqueous Solution Processing & Electrometallurgy (discontinued)	2	1/21	METL6204 Hydrometallurgy and Electrometallurgy	2	2	1/22	
ENGG7290 Engineering Placement Semester (discontinued)	8	2/22	ENGG7292 Engineering Placement A (NEW)	2	2	1/23	
CHEE4002 Risk in Process Industries	2		CHEE4002 Risk in Process Industries	1	2		
CHEE7111 Advanced Process and System Modelling	2		CHEE7111 Advanced Process and System Modelling	1	2		
CHEE7113 Whole of Process Optimisation and Control	2		CHEE7113 Whole of Process Optimisation and Control	1	2		
ENGG4900 Professional Practice and the Business Environment	2		ENGG4900 Professional Practice and the Business Environment	1,2	2		
CHEE7103 Chemical Engineering ME Design Project	4		CHEE7103 Chemical Engineering ME Design Project	2	4		
ENGG7701 Engineering Grand Challenges	2		ENGG7701 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):				

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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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	MINE4207 Special Topics in Minerals Processing I (discontinued)	1	2/20	Any BE Elective				
	TIMS3309 Fundamentals of Technology and Innovation Management	2		TIMS3309 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.
	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 (discontinued)	2	2/22	WATR6103 Advanced Wastewater and Biosolids Treatment	2	2	2/23	
	CHEE4022 Principles of Absorption (discontinued)	2	2/22	Any Part B4 Elective	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 (discontinued)	2	1/17	Any Part B4 Elective				
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	2/20	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21	
	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		

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:							
	CHEE7112 Integrated Safety Design and Management	2		CHEE7112 Integrated Safety Design and Management	1	2		
	CHEE7502 Sustainable Bioresource Engineering	2		CHEE7502 Sustainable Bioresource Engineering	1	2		
	ENVM7524 Carbon & Energy Management	2		ENVM7524 Carbon & Energy Management	1,2	2		
	MATE7001 Environmental Performance of Materials	2		MATE7001 Environmental Performance of Materials	1	2		

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	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		
	TIMS7317 Corporate Sustainability	2		TIMS7317 Corporate Sustainability	1,2	2		

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