

CHECKLIST Bachelor of Engineering (Honours)/Master of Engineering – Chemical & Metallurgical Engineering (2350): 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)/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
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)	1	2	
	CHEE2010 Engineering Investigation & Statistical Analysis	2		CHEE2010 Engineering Investigation & Statistical Analysis (moves	1	2	

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				to semester 1 in 2022)			
	CHEM2056 Physical Chemistry for Engineering	2		CHEM2056 Physical Chemistry for Engineering	1	2	
	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)	2	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)	1	2	
	CHEE3007 Process Modelling & Dynamics	2		CHEE3007 Process Modelling & Dynamics	2	2	
	MINE3208 Physical Separation Processes (discontinued)	2	2/21	METL3208 Physical Separation Processes (discontinued)	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	2	2	2/22
	MINE4203 Flotation (discontinued)	2	1/21	METL4203 Flotation (discontinued)	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 (8) (discontinued)	8	2/22	ENGG7929 Engineering Placement B	1,2	2	2/23
	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 (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
	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	

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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
	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
	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)	2	2	

✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	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	

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	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			
	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
	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	CHEE4012 Industrial Wastewater & Solid Waste Management (discontinued)	2	2	
	CHEE4022 Principles of Adsorption (discontinued)	2	2/20	CHEE4022 Principles of Adsorption (discontinued)	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	
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	2/20	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21
	ENGG3500 Reservoir Engineering (discontinued)	2	2/20	ENGG3500 Reservoir Engineering (discontinued)	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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PART N

✓/x compl.	Part N – Electives (4 units total)	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
4 units from Part N – Electives							
	CHEE7112 Integrated Safety Design and Management	2		CHEE7112 Integrated Safety Design and Management	1	2	
	CHEE7502 Sustainable Bioresource Engineering (discontinued)	2	1/20	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	
	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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