

CHECKLIST Bachelor of Engineering (Honours) – Mining Engineering (2342): 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) (Mining Engineering) - a Single Major (Plan code: MININX2342) or Extended Major (Plan code: MININY2342), 64 units comprising -

- a major - 52 units, being all courses from [part A](#) (listed below); and
- 12 units from electives
 - a minimum of 6 units from courses on the BE(Hons) list, other than courses on the Mining Engineering [part B0](#) list, and
 - a maximum of 4 units from courses on the Mining Engineering [part B0 list](#), and
 - a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- an extended major - 60 units, comprising-
 - 52 units, being all courses from [part A](#) - compulsory; and
 - 8 units as set out in part B electives under [Extended Major](#); and
- 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
52 units for all 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	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	
	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 & Materials	1,2	2	1/21
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes & Geological Materials for Engineers	1	2	
	MECH2410 Fundamentals of Fluid Mechanics	2		MECH2410 Fundamentals of Fluid Mechanics	1	2	
	MINE2105 Introduction to Mining and Mineral Processing (discontinued)	2	1/21	From S2/2022, MINE2105 may be replaced with any BE Elective at the same level or higher		2	
	MECH2300 Structures & Materials	2		MECH2300 Structures & Materials	1	2	

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	CIVL2210 Soil Mechanics	2		CIVL2210 Soil Mechanics	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	2	
	MINE2106 Resource Geology & Mine Surveying (discontinued)	2	1/21	ERTH2004 Structural Geology	1	2	
	STAT2203 Probability Models and Data Analysis for Engineering	2		STAT2203 Probability Models and Data Analysis for Engineering	2	2	
	MINE3120 Resource Estimation (discontinued)	2	1/22	MINE3110 Integrated Orebody Knowledge	2	2	2/23
	MINE3121 Mining Geomechanics (discontinued)	2	1/22	MINE3129 Applied Mining Geomechanics	1	2	1/23
	MINE3122 Mining Systems	2	1/22	MINE3122 Mining Systems and Automation	2	2	2/23
	MINE3123 Mine Planning	2	2/22	MINE3123 Mine Planning and Sustainability	1	2	1/23
	MINE3124 Mine Ventilation (discontinued)	2	2/22	MECH3400 Thermodynamics and Heat Transfer	1	2	
	MINE3125 Explosives and Blasting Engineering (discontinued)	2	1/22	MINE4129 Mine Process Optimization	2	2	2/23
	MECH4500 Engineering Thesis (discontinued) or MECH4501 Engineering Thesis (discontinued)	4	2/20 2/20	ENGG4600 Engineering Thesis or ENGG4601 Engineering Thesis	1 2	4	
	MINE4120 Mine Geotechnical Engineering (discontinued)	2	1/23	CIVL4230 Advanced Soil Mechanics	2	2	
	MINE4124 Hard Rock Mine Design & Feasibility	2	1/23	MINE4124 Mine Design and Feasibility	2	2	2/24
	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
	MINE4125 Coal Mine Design and Feasibility (discontinued)	2	2/23	any BE elective at Level 4			

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
	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers	1,2 1,2	2	1/21
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Engineering Thermodynamics	1,2	2	
	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	
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	12	2	

✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
	CIVL3210 Geotechnical Engineering	2		CIVL3210 Geotechnical Engineering	1	2	
	ENGG4103 Engineering Asset Management	2		ENGG4103 Engineering Asset Management	1	2	
	ERTH3203 Energy Resources	2		ERTH3203 Energy Resources	1	2	
	ERTH3301 Ore Body Modelling	2		ERTH3301 Ore Body Modelling	2	2	
	MECH6480 Computational Fluid Dynamics	2		MECH6480 Computational Fluid Dynamics	2	2	
	METR3100 Control System Implementation	2		METR3100 Control System Implementation	1	2	
	MINE3109 Special Topics in Mining II	2		MINE3109 Special Topics in Mining	2	2	
	MINE3126 Underground Mining Systems (discontinued)	2	2/22	From 2023, MINE3126 may be replaced with any BE Elective at the same level or higher		2	

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	MINE3127 Socio-Environmental Aspects of Mining (discontinued)	2	2/22	From 2023, MINE3127 may be replaced with any BE Elective at the same level or higher		2	
	MINE3128 Surface Mining Systems (discontinued)	2	2/22	From 2023, MINE3128 may be replaced with any BE Elective at the same level or higher		2	
	MINE4128 Coal Mine Strata Control (discontinued)	2	1/23	From 2023, MINE4128 may be replaced with any BE Elective at the same level or higher		2	

✓/x compl.	Extended major	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered
Students enrolled in the extended major are required to complete 8 units from the courses listed below:							
	CIVL3210 Geotechnical Engineering	2		CIVL3210 Geotechnical Engineering	1	2	
	ENGG4103 Engineering Asset Management	2		ENGG4103 Engineering Asset Management	1	2	
	MINE3109 Special Topics in Mining II	2	2/22	No replacement		2	
	MINE3126 Underground Mining Systems (discontinued)	2	2/22	No replacement		2	
	MINE3127 Socio-Environmental Aspects of Mining (discontinued)	2	2/22	No replacement		2	
	MINE3128 Surface Mining Systems (discontinued)	2	2/22	No replacement		2	
	MINE4128 Coal Mine Strata Control (discontinued)	2	2/22	No replacement		2	

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