

# 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							
	<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	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>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 & Materials	1,2	2	1/21
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2		<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	2	
	<b>MECH2410</b> Fundamentals of Fluid Mechanics	2		<b>MECH2410</b> Fundamentals of Fluid Mechanics	1	2	
	<b>MINE2105</b> Introduction to Mining and Mineral Processing (discontinued)	2	1/21	From S2/2022, <b>MINE2105</b> may be replaced with any BE Elective at the same level or higher		2	

Once you have completed the BE(Hons) Transition Plan – Mining continuation 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.

	<b>MECH2300</b> Structures & Materials	2		<b>MECH2300</b> Structures & Materials	1	2	
	<b>CIVL2210</b> Soil Mechanics	2		<b>CIVL2210</b> Soil Mechanics	2	2	
	<b>MATH2000</b> Calculus & Linear Algebra II (discontinued) or <b>MATH2001</b> Advanced Calculus & Linear Algebra II	2	<b>2/21</b>	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2	
	<b>MINE2106</b> Resource Geology & Mine Surveying (discontinued)	2	<b>1/21</b>	<b>ERTH2004</b> Structural Geology	1	2	
	<b>STAT2203</b> Probability Models and Data Analysis for Engineering	2		<b>STAT2203</b> Probability Models and Data Analysis for Engineering	2	2	
	<b>MINE3120</b> Resource Estimation (discontinued)	2	<b>1/22</b>	<b>MINE3110</b> Integrated Orebody Knowledge	2	2	<b>2/23</b>
	<b>MINE3121</b> Mining Geomechanics (discontinued)	2	<b>1/22</b>	<b>MINE3129</b> Applied Mining Geomechanics	1	2	<b>1/23</b>
	<b>MINE3122</b> Mining Systems	2	<b>1/22</b>	<b>MINE3122</b> Mining Systems and Automation	2	2	<b>2/23</b>
	<b>MINE3123</b> Mine Planning	2	<b>2/22</b>	<b>MINE3123</b> Mine Planning and Sustainability	1	2	<b>1/23</b>
	<b>MINE3124</b> Mine Ventilation (discontinued)	2	<b>2/22</b>	<b>MECH3400</b> Thermodynamics and Heat Transfer	1	2	
	<b>MINE3125</b> Explosives and Blasting Engineering (discontinued)	2	<b>1/22</b>	<b>MINE4129</b> Mine Process Optimization	2	2	<b>2/23</b>
	<b>MECH4500</b> Engineering Thesis (discontinued) or <b>MECH4501</b> Engineering Thesis (discontinued)	4	<b>2/20</b> <b>2/20</b>	<b>ENGG4600</b> Engineering Thesis or <b>ENGG4601</b> Engineering Thesis	1 2	4	
	<b>MINE4120</b> Mine Geotechnical Engineering (discontinued)	2	<b>1/23</b>	<b>MINE3109</b> Special Topics in Mining	1,2	2	<b>1/24</b>
	<b>MINE4124</b> Hard Rock Mine Design & Feasibility	2	<b>1/23</b>	<b>MINE4124</b> Mine Design and Feasibility	2	2	<b>2/24</b>
	<b>ENGG4900</b> Professional Practice and the Business Environment (discontinued)	2	<b>2/23</b>	<b>ENGG4901</b> Professional Practice and the Business Environment A or <b>ENGG4902</b> Professional Practice and the Business Environment B	1 2	2	<b>1/24</b>
	<b>MINE4125</b> Coal Mine Design and Feasibility (discontinued)	2	<b>2/23</b>	<b>MINE3109 Special Topics in Mining</b>	1,2	2	<b>1/24</b>

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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
	<b>CHEM1090</b> Introductory Chemistry	2		<b>CHEM1090</b> Introductory Chemistry	1	2	
	<b>MATH1050</b> Mathematical Foundations	2		<b>MATH1050</b> Mathematical Foundations	1,2	2	
	<b>PHYS1171</b> Physical Basis of Biological Systems	2		<b>PHYS1171</b> 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
	<b>CHEM1100</b> Chemistry 1	2		<b>CHEM1100</b> Chemistry 1	1,2	2	
	<b>CSSE1001</b> Introduction to Software Engineering	2		<b>CSSE1001</b> Introduction to Software Engineering OR <b>ENGG1001</b> Programming for Engineers	1,2 1,2	2	1/21
	<b>ENGG1500</b> Engineering Thermodynamics	2		<b>ENGG1500</b> Engineering Thermodynamics	1,2	2	
	<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>PHYS1002</b> Electromagnetism and Modern Physics	2		<b>PHYS1002</b> 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
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	1	2	
	<b>ENGG4103</b> Engineering Asset Management	2		<b>ENGG4103</b> Engineering Asset Management	1	2	
	<b>ERTH3203</b> Energy Resources	2		<b>ERTH3203</b> Energy Resources	1	2	
	<b>ERTH3301</b> Ore Body Modelling	2		<b>ERTH3301</b> Ore Body Modelling	2	2	
	<b>MECH6480</b> Computational Fluid Dynamics	2		<b>MECH6480</b> Computational Fluid Dynamics	2	2	
	<b>METR3100</b> Control System Implementation	2		<b>METR3100</b> Control System Implementation	1	2	
	<b>MINE3109</b> Special Topics in Mining II	2		<b>MINE3109</b> Special Topics in Mining	2	2	
	<b>MINE3126</b> Underground Mining Systems (discontinued)	2	2/22	From 2023, <b>MINE3126</b> may be replaced with any BE Elective at the same level or higher		2	

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	<b>MINE3127</b> Socio-Environmental Aspects of Mining (discontinued)	2	<b>2/22</b>	From 2023, <b>MINE3127</b> may be replaced with any BE Elective at the same level or higher		2	
	<b>MINE3128</b> Surface Mining Systems (discontinued)	2	<b>2/22</b>	From 2023, <b>MINE3128</b> may be replaced with any BE Elective at the same level or higher		2	
	<b>MINE4128</b> Coal Mine Strata Control (discontinued)	2	<b>1/23</b>	From 2023, <b>MINE4128</b> 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:							
	<b>CIVL3210</b> Geotechnical Engineering	2		<b>CIVL3210</b> Geotechnical Engineering	1	2	
	<b>ENGG4103</b> Engineering Asset Management	2		<b>ENGG4103</b> Engineering Asset Management	1	2	
	<b>MINE3109</b> Special Topics in Mining II	2	<b>2/22</b>	<b>No replacement</b>		2	
	<b>MINE3126</b> Underground Mining Systems (discontinued)	2	<b>2/22</b>	<b>No replacement</b>		2	
	<b>MINE3127</b> Socio-Environmental Aspects of Mining (discontinued)	2	<b>2/22</b>	<b>No replacement</b>		2	
	<b>MINE3128</b> Surface Mining Systems (discontinued)	2	<b>2/22</b>	<b>No replacement</b>		2	
	<b>MINE4128</b> Coal Mine Strata Control (discontinued)	2	<b>2/22</b>	<b>No replacement</b>		2	

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