



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Mining Engineering

Bachelor of Engineering (Honours)



Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) in Mining Engineering in 2020. Please note that all course selections must adhere to the program course list outlined at [UQ Courses and Programs](#). If you have any questions or concerns regarding your course selections, please speak with an [Academic Advisor](#) in the School of Mechanical and Mining Engineering.

February Commencement

SEM	YEAR 1			
Sem 1 Feb	ENGG1100 Engineering Design	ENGG1300 Introduction to Electrical Systems	MATH1051 Calculus & Linear Algebra I	ERTH1501 Earth Processes & Geological Materials for Engineers
Sem 2 July	ENGG1200 Engineering Modelling & Problem Solving	ENGG1400 Engineering Mechanics: Statics & Dynamics	MATH1052 Multivariate Calculus & ODEs	B0 or B1 Elective
SEM	YEAR 2			
Sem 3 Feb	MINE2105 Introduction to Mining and Mineral Processing	MECH2410 Fundamentals of Fluid Mechanics	MECH2300 Structures & Materials	B0 or B1 Elective
Sem 4 July	CIVL2210 Fundamentals of Soil Mechanics	STAT2203 Probability Models and Data Analysis for Engineering	MINE2106 Resource Geology & Surveying	MATH2000 Calculus & Linear Algebra II
SEM	YEAR 3			
Sem 5 Feb	MINE3120 Resource Estimation	MINE3121 Mining Geomechanics	MINE3122 Mining Systems	B2 Elective
Sem 6 July	MINE3123 Mine Planning	MINE3124 Mine Ventilation	MINE3125 Explosive and Blasting Engineering	B2 Elective
SEM	YEAR 4			
Sem 7 Feb	MECH4500 Engineering Thesis	MINE4120 Mine Geotechnical Engineering	MINE4124 Hard Rock Mine Design & Feasibility	B2 Elective
Sem 8 July		ENGG4900 Professional Practice & the Business Environment	MINE4125 Coal Mine Design & Feasibility	B2 Elective

B0 Electives

[CHEM1090](#) Introductory Chemistry
[MATH1050](#) Mathematical Foundations
[PHYS1171](#) Physical Basis of Biological Systems

B1 Electives

[CHEM1100](#) Chemistry 1
[CSSE1001](#) Introduction to Software Engineering
[ENGG1500](#) Engineering Thermodynamics
[ENGG1600](#) Introduction to Research Practices
[PHYS1002](#) Electromagnetism & Modern Physics

B2 Electives

[CIVL3210](#) Geotechnical Engineering
[ENGG4103](#) Engineering Asset Management
[ERTH3203](#) Energy Resources
[ERTH3301](#) Ore Body Modelling
[MECH6480](#) Computational Fluid Dynamics
[METR3100](#) Control System Implementation
[MINE3109](#) Special Topics in Mining II
[MINE3126](#) Underground Mining Systems
[MINE3127](#) Socio-Environmental Aspects of Mining
[MINE3128](#) Surface Mining Systems
[MINE4128](#) Coal Mine Strata Control

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July Commencement

SEM	YEAR 1			
Sem 1 July	ENGG1211 Engineering Design, Modelling & Problem Solving	MATH1051 Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	ENGG1400 Engineering Mechanics: Statics & Dynamics
Summer Sem				
Sem 2 Feb	MINE2105 Introduction to Mining and Mineral Processing	MECH2300 Structures & Materials	MATH1052 Multivariate Calculus & ODEs	ERTH1501 Earth Processes & Geological Materials for Engineers
SEM	YEAR 2			
Sem 3 July	CIVL2210 Fundamentals of Soil Mechanics	MATH2000 Calculus & Linear Algebra II	STAT2203 Probability Models and Data Analysis for Engineering	MINE2106 Resource Geology & Surveying
Sem 4 Feb	MINE3120 Resource Estimation	MINE3121 Mining Geomechanics	MINE3122 Mining Systems	MECH2410 Fundamentals of Fluid Mechanics
SEM	YEAR 3			
Sem 5 July	MINE3123 Mine Planning	MINE3124 Mine Ventilation	MINE3125 Explosive and Blasting Engineering	B0 or B1 Elective
Sem 6 Feb	MINE4120 Mine Geotechnical Engineering	MINE4124 Hard Rock Mine Design & Feasibility	B2 Elective	B0 or B1 Elective
SEM	YEAR 4			
Sem 7 July	MECH4501 Engineering Thesis	MINE4125 Coal Mine Design & Feasibility	B2 Elective	B2 Elective
Sem 8 Feb		ENGG4900 Professional Practice & the Business Environment	B2 Elective	

B0 Electives

CHEM1090 Introductory Chemistry
MATH1050 Mathematical Foundations
PHYS1171 Physical Basis of Biological Systems

B1 Electives

CHEM1100 Chemistry 1
CSSE1001 Introduction to Software Engineering
ENGG1500 Engineering Thermodynamics
ENGG1600 Introduction to Research Practices
PHYS1002 Electromagnetism & Modern Physics

B2 Electives

CIVL3210 Geotechnical Engineering
ENGG4103 Engineering Asset Management
ERTH3203 Energy Resources
ERTH3301 Ore Body Modelling
MECH4480 Computational Fluid Dynamics
METR3100 Control System Implementation
MINE3109 Special Topics in Mining II
MINE3126 Underground Mining Systems
MINE3127 Socio-Environmental Aspects of Mining
MINE3128 Surface Mining Systems
MINE4128 Coal Mine Strata Control