



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

CREATE CHANGE

# Mining & Geotechnical 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 & Geotechnical 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	<a href="#">ENGG1100</a> Engineering Design	<a href="#">ERTH1501</a> Earth Processes & Geological Materials for Engineers	<a href="#">MATH1051</a> Calculus & Linear Algebra I	B0 or B1 Elective
Sem 2 July	<a href="#">ENGG1200</a> Engineering Modelling & Problem Solving	<a href="#">ENGG1400</a> Engineering Mechanics: Statics & Dynamics	<a href="#">MATH1052</a> Multivariate Calculus & ODEs	B0 or B1 Elective
SEM	YEAR 2			
Sem 3 Feb	<a href="#">MINE2105</a> Introduction to Mining and Mineral Processing	<a href="#">MECH2410</a> Fundamentals of Fluid Mechanics	<a href="#">MECH2300</a> Structures & Materials	<a href="#">MATH2000</a> Calculus & Linear Algebra II
Sem 4 July	<a href="#">CIVL2210</a> Fundamentals of Soil Mechanics	<a href="#">STAT2203</a> Probability Models and Data Analysis for Engineering	<a href="#">MINE2106</a> Resource Geology & Surveying	<a href="#">ERTH2004</a> Structural Geology
SEM	YEAR 3			
Sem 5 Feb	<a href="#">MINE3120</a> Resource Estimation	<a href="#">MINE3121</a> Mining Geomechanics	<a href="#">MINE3122</a> Mining Systems	<a href="#">CIVL4270</a> Geotechnical Investigation & Testing
Sem 6 July	<a href="#">MINE3123</a> Mine Planning	<a href="#">MINE3124</a> Mine Ventilation	<a href="#">MINE3125</a> Explosive and Blasting Engineering	<a href="#">ERTH3250</a> Hydrogeology
SEM	YEAR 4			
Sem 7 Feb	<a href="#">MECH4500</a> Engineering Thesis	<a href="#">MINE4120</a> Mine Geotechnical Engineering	<a href="#">MINE4124</a> Hard Rock Mine Design & Feasibility	<a href="#">MINE4128</a> Coal Mine Strata Control
Sem 8 July		<a href="#">ENGG4900</a> Professional Practice & the Business Environment	<a href="#">MINE4125</a> Coal Mine Design & Feasibility	<a href="#">CIVL4280</a> Advanced Rock Mechanics

#### B0 Electives

<a href="#">CHEM1090</a>	Introductory Chemistry
<a href="#">MATH1050</a>	Mathematical Foundations
<a href="#">PHYS1171</a>	Physical Basis of Biological Systems

#### B1 Electives

<a href="#">CHEM1100</a>	Chemistry 1
<a href="#">CSSE1001</a>	Introduction to Software Engineering
<a href="#">ENGG1300</a>	Introduction to Electrical Systems
<a href="#">ENGG1500</a>	Engineering Thermodynamics
<a href="#">ENGG1600</a>	Introduction to Research Practices
<a href="#">PHYS1002</a>	Electromagnetism & Modern Physics



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### July Commencement

SEM	YEAR 1			
Sem 1 July	<b>ENGG1211</b> Engineering Design, Modelling & Problem Solving	<b>MATH1051</b> Calculus & Linear Algebra I	<b>ENGG1400</b> Engineering Mechanics: Statics & Dynamics	B0 or B1 Elective
Summer Sem				
Sem 2 Feb	<b>MINE2105</b> Introduction to Mining and Mineral Processing	<b>MECH2300</b> Structures & Materials	<b>MATH1052</b> Multivariate Calculus & ODEs	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers
SEM	YEAR 2			
Sem 3 July	<b>CIVL2210</b> Fundamentals of Soil Mechanics	<b>MATH2000</b> Calculus & Linear Algebra II	<b>STAT2203</b> Probability Models and Data Analysis for Engineering	<b>MINE2106</b> Resource Geology & Surveying
Sem 4 Feb	<b>MINE3120</b> Resource Estimation	<b>MINE3121</b> Mining Geomechanics	<b>MINE3122</b> Mining Systems	<b>MECH2410</b> Fundamentals of Fluid Mechanics
SEM	YEAR 3			
Sem 5 July	<b>MINE3123</b> Mine Planning	<b>MINE3124</b> Mine Ventilation	<b>MINE3125</b> Explosive and Blasting Engineering	<b>ERTH2004</b> Resource Geology & Surveying
Sem 6 Feb	<b>MINE4120</b> Mine Geotechnical Engineering	<b>MINE4124</b> Hard Rock Mine Design & Feasibility	<b>CIVL4270</b> Geotechnical Investigation & Testing	B0 or B1 Elective
SEM	YEAR 4			
Sem 7 July	<b>MECH4501</b> Engineering Thesis	<b>MINE4125</b> Coal Mine Design & Feasibility	<b>CIVL4280</b> Advanced Rock Mechanics	<b>ERTH3250</b> Hydrogeology
Sem 8 Feb		<b>ENGG4900</b> Professional Practice & the Business Environment	<b>MINE4128</b> Coal Mine Strata Control	

#### B0 Electives

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

#### B1 Electives

**CHEM1100** Chemistry 1  
**CSSE1001** Introduction to Software Engineering  
**ENGG1300** Introduction to Electrical Systems  
**ENGG1500** Engineering Thermodynamics  
**ENGG1600** Introduction to Research Practices  
**PHYS1002** Electromagnetism & Modern Physics