



THE UNIVERSITY
of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

School of Civil, Environmental & Mining Engineering

Bachelor of Engineering (Honours) (Mining) – All Majors

Semester 1 Start

[Bachelor of Engineering \(Honours\) \(Mining\)](#)

[Bachelor of Engineering \(Honours\) \(Mining\) - Mine Automation Major](#)

Bachelor of Engineering (Honours) (Mining)

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>	Level 1 Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	General Elective <input type="checkbox"/>	General Elective <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MINING 3068 Mining Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	MINING 4106 Hard Rock Design & Feasibility <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>

Core Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	ELEC ENG 1101 Analog Electronics <input type="checkbox"/>		
S2	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	MECH ENG 1007 Mechanical Engineering <input type="checkbox"/>		
CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES				
TBC	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	MINING 4107 Surface mining Systems <input type="checkbox"/>	MINING 4110 Mine Asset Management and Services <input type="checkbox"/>
	MINING 4113 Advanced Mine Ventilation <input type="checkbox"/>	MINING 4114 Simulation & Animation for Mining Engineers <input type="checkbox"/>		
S2	MINING 4112 Advanced Mine Geotechnical Engineering <input type="checkbox"/>			

NOTES

^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internships: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

General Electives: How to choose an elective course in your area of interest? Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules: For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice:

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Mining) - Mine Automation Major

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics (Dynamics) <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MINING 3068 Mining Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	MINING 4106 Hard Rock Design & Feasibility <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 4115 Automation in Mining <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>

Core Courses

Major Courses

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