

No Major .....	2
Mine Automation Major .....	3

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>	Level I Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	General Elective <i>Suggested elective: CEME 1001 Introduction to Environmental Engineering</i> <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Mineral Resources II <input type="checkbox"/>	General Elective <i>Suggested elective: CEME 2005 Transportation Engineering &amp; Survey</i> <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
Year 3				
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 <i>Suggested elective: CHEM ENG 2010 Process Design II</i> <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	General Elective <i>Suggested elective: MECH 2101 Mechatronics IM</i> <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 3078 Resource Estimation and Mine Planning <input type="checkbox"/> <i>In lieu of MINING 3070 Resource Estimation</i>	MINING 3076 Geomechanics and Excavation Engineering <input type="checkbox"/> <i>In lieu of MINING 3072 Mining Geomechanics</i>	MINING 3071 Mining Systems <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 3077 Mine Safety Engineering <input type="checkbox"/> <i>In lieu of MINING 3073 Mine Planning</i>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	MINING 4116 Mine Design and Feasibility Study <i>In lieu of MINING 4106 Hard Rock Mine Design &amp; Feasibility</i> <input type="checkbox"/>	MINING 4117 Mining and Environment <i>In lieu of MINING 4104 Socio- Environmental Aspects of Mining</i> <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
S 2	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>

Year 6				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Elective	Double Degree Courses	

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

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 ELEC ENG 1101	Introduction to Environmental Engineering Electronic Systems	S2	CEME 1002 MECH ENG 1007	Introduction to Infrastructure Engineering Mechanics- Dynamics
CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES					
S1	CEME 4007 CEME 4008 GEOG 2129 GEOLOGY 2501 GEOLOGY 3500	Unsaturated Soils Soil and Ground Water Remediation Introductory Geographic Information Systems (GIS) Structural Geology II Exploration Methods III	S2	CEME 3006 CHEM ENG 2019 GEOLOGY 3502 MINING 4115	Geotechnical Engineering Introduction to Minerals Processing Mineral and Energy Resources III Mine Automation

### NOTES

**Internship:** All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: <https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering>.

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

# Mathematics Electives may be chosen from those listed in the program rules for the Bachelor of Mathematical and Computer Sciences. Students must complete a major or double major in accordance with the Bachelor of Mathematical and Computer Science program rules

### Information and Enrolment Advice:

Ask ECMS

Email: [askecms@adelaide.edu.au](mailto:askecms@adelaide.edu.au)

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

# 2022 Study Plan

## Bachelor of Engineering (Honours) (Mining) with Bachelor of Mathematical and Computer Sciences - Mathematics Major – Semester 2 Start

### Mine Automation Major

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	<sup>^</sup> 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 1012 Mathematics IB <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 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Mineral Resources II <input type="checkbox"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
Year 3				
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"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
S 2	MINING 3077 Mine Safety Engineering <input type="checkbox"/> <i>In lieu of MINING 3073 Mine Planning</i>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	MINING 3076 Geomechanics and Excavation Engineering <input type="checkbox"/> <i>In lieu of MINING 3072 Mining Geomechanics</i>	MINING 3071 Mining Systems <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	#Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 4116 Mine Design and Feasibility Study <i>In lieu of MINING 4106 Hard Rock Mine Design &amp; Feasibility</i> <input type="checkbox"/>	MINING 4117 Mining and Environment <i>In lieu of MINING 4104 Socio-Environmental Aspects of Mining</i> <input type="checkbox"/>	MINING 3078 Resource Estimation and Mine Planning <i>In lieu of MINING 3070 Resource Estimation</i> <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 4115 Automation in Mining <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>

Year 6					
S 1	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	#Level III Mathematics Elective <input type="checkbox"/>		#Level III Mathematics Elective <input type="checkbox"/>
Core Courses	Double Degree Courses	Major Courses	Elective		

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### CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES

<b>S1</b>	CEME 4007 CEME 4008 GEOG 2129 GEOLOGY 2501 GEOLOGY 3500	Unsaturated Soils Soil and Ground Water Remediation Introductory Geographic Information Systems (GIS) Structural Geology II Exploration Methods III	<b>S2</b>	CEME 3006 CHEM ENG 2019 GEOLOGY 3502	Geotechnical Engineering Introduction to Minerals Processing Mineral and Energy Resources III
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