

## Enrolment Program Structure

Program Code – EG8.MIN

Program Name – Bachelor of Engineering (Mining) (Honours)

First Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	ENGIN1001	Professional Engineering	<b>EX:</b> ENCOR1005
	ENGIN1002	Engineering Physics	<b>EX:</b> ENCOR1021 & ENCOR2100
	ENGIN1003	Materials in Engineering	<b>EX:</b> ENCOR1110
	MATHS1001	Modelling and Change (Introductory Level)	
<b>Semester 2</b>			
	ENGIN1004	Engineering Design and Drafting	<b>EX:</b> ENCOR1010
	ENGIN1005	Engineering Mechanics	<b>EX:</b> ENCOR1110 & ENCOR1021
	ENGIN1006	Engineering Computer Modelling	<b>EX:</b> ENCOR1021
	MATHS1102	Linear Algebra and Applications	<b>EX:</b> MATHS1005
Second Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	ENGIN2001	Professional Practice	<b>PR:</b> ENGIN1001 or ENCOR1005 <b>EX:</b> ENCOR3035
	ENGIN2301	Mechanics of Solids	<b>PR:</b> ENGIN1005 or ENCOR1000 or ENCOR1021 <b>EX:</b> ENCOR2030
	ENGIN2501	Mine Power and Services Technology	<b>EX:</b> ENMIN5100 & ETMIN2260
	ENGIN2502	Rock Fragmentation	<b>EX:</b> ENMIN2040
		MATHS2001 OR MATHS2016	
<b>Semester 2</b>			
	ENGIN2304	Thermofluids	<b>PR:</b> ENGIN1005 <b>EX:</b> ENCOR2100
	ENGIN2503	Rock Mechanics Applications	<b>PR:</b> ENCOR2030 or ENGIN2301 <b>EX:</b> ENMIN3040
	MATHS3001	Modelling and Change (Advanced Level)	<b>PR:</b> MATHS1001 <b>EX:</b> MATHS2006
	SCGEO1103	Planet Earth	

Third Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	ENGIN3204	Engineering Surveying	<b>EX:</b> ENCIV2010
	ENGIN3501	Underground Production Systems	<b>PR:</b> ENGIN2502 or ENMIN2040 <b>EX:</b> ENMIN3020
	ENGIN3502	Subsurface Environmental Engineering	<b>PR:</b> ENCOR2100 or ENGIN2304 <b>EX:</b> ENMIN3050 & ENMIN5023
	SCENV3120	Landscape Restoration and Mine Site Rehabilitation	
<b>Semester 2</b>			
	ENGIN3001	Engineering Research Methodology and Management	<b>PR:</b> ENGIN1001 or ENCOR1005 <b>EX:</b> ENCOR4010 & ENMTX4060
	ENGIN3503	Surface Mining Operations and Equipment	<b>PR:</b> ENGIN2502 or ENMIN2040 <b>EX:</b> ENMIN3070
	ENGIN5503	Advanced Mine Ventilation	<b>EX:</b> ENMIN4050
	SCGEO2105	Economic Geology	<b>PR:</b> SCGEO1102 or SCGEO1103
Fourth Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	ENGIN4001	Engineering Project 1	<b>PR:</b> ENGIN3001 <b>EX:</b> ENCOR4100
	ENGIN5505	Mine Planning & Scheduling	<b>EX:</b> ENMIN4090 & ENMIN7010
	SCMET3100	Mineral Processing I	<b>PR:</b> SCCHM1003 or SCMET1002
<b>Semester 2</b>			
	ENGIN4002	Engineering Project 2	<b>PR:</b> ENGIN4001 or ENCOR4100 <b>EX:</b> ENCOR4200
	ENGIN5508	Smart Engineering Technologies	<b>PR:</b> ENGIN3001
	SCMET3200	Mineral Processing II	<b>PR:</b> SCMET3100

### Additional Information

This program structure applies to students commencing from 2023. Students who commenced prior to 2023 should refer to the continuing enrolments page.

### Glossary

**Semester:** designated teaching period.

**PR:** Pre-requisite, a course/s that must be completed prior to undertaking another course.

**CO:** Co-requisite, a course/s that must be completed simultaneously, or prior to, undertaking another course.

**EX:** Exclusion, a course/s that may not be taken.