Enrolment Program Structure

Program Code – EG8.MIN

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

First Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN1001	Professional Engineering	**EX**: ENCOR1005 GPENG1001
	ENGIN1002	Engineering Physics	**EX**: ENCOR1021 & ENCOR2100 GPENG1002
	ENGIN1003	Materials in Engineering	**EX**: ENCOR1110 GPENG1003
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	ENGIN1004	Engineering Design and Drafting	**EX**: ENCOR1010 GPENG1004
	ENGIN1005	Engineering Mechanics	**EX**: ENCOR1110 & ENCOR1021 GPENG1005
	ENGIN1006	Engineering Computer Modelling	**EX**: ENCOR1021 GPENG1006
	MATHS1102	Linear Algebra and Applications	**EX:** MATHS1005

Second Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN2001	Professional Practice	**PR**: ENGIN1001 or ENCOR1005 **EX**: ENCOR3035
	ENGIN2301	Mechanics of Solids	**PR**: ENGIN1005 for undergraduate Students only **EX**: ENCOR2030
	ENGIN2501	Mine Power and Services Technology	**EX**: ENMIN5100 & ETMIN2260
	ENGIN2502	Rock Fragmentation	**EX**: ENMIN2040
		MATHS2001 OR MATHS2016	
Semester 2			
	ENGIN2304	Thermofluids	**PR:** ENGIN1005 & MATHS1001 **EX**: ENCOR2100
	ENGIN2503	Rock Mechanics Applications	**EX**: ENMIN3040 & ENMIN5160
	MATHS3001	Modelling and Change (Advanced Level)	**PR:** MATHS1001 **EX**: MATHS2006
	SCGEO1103	Planet Earth	

Third Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN3204	Engineering Surveying	**EX:** ENCIV2010
	ENGIN3501	Underground Production Systems	**PR:** ENGIN2502 for undergraduate Students only **EX**: ENMIN3020
	ENGIN3502	Subsurface Environmental Engineering	**PR:** ENGIN2304 for undergraduate Students only **EX:** ENMIN3050 & ENMIN5023
	SCENV3120	Landscape Restoration and Mine Site Rehabilitation	
Semester 2			
	ENGIN3001	Engineering Research Methodology and Management	**PR:** ENGIN1001 or ENCOR1005 **EX:** ENCOR4010 & ENMTX4060
	ENGIN3503	Surface Mining Operations and Equipment	**PR**: ENGIN2502 for undergraduate Students only **EX**: ENMIN3070
	ENGIN5503	Advanced Mine Ventilation	**EX:** ENMIN4050
	SCGEO2105	Economic Geology	**PR**: SCGEO1102 or SCGEO1103

Fourth Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN4001	Engineering Project 1	**EX:** ENCOR4100
	ENGIN5505	Mine Planning & Scheduling	**EX:** ENMIN4090 & ENMIN7010
	SCMET3100	Mineral Processing I	**PR**: SCCHM1003 or SCMET1002
Semester 2			
	ENGIN4002	Engineering Project 2	**PR**: ENGIN4001 or ENCOR4100 **EX**: ENCOR4200
	ENGIN5508	Smart Engineering Technologies	**PR:** ENGIN3001
	SCMET3200	Mineral Processing II	**PR**: SCMET3100

Additional Information

This program structure applies to continuing students who commenced in 2023 or prior.

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.