

Mid-year Enrolment Course Structure

Course Code – EN8.MIN

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

First Year	Unit Code	Unit Name	Unit Rules
Semester 2			
	COOPE1001	Professional Identity (Engineering)	
	ENGRG1004	Physics for Engineers 2	EX: ENGIN1002 & ENGIN1003
	ENGRG1005	Engineering Design 2	EX: ENGIN1004 & ENGIN3002
	MATHS2100	Applied Mathematics 2	EX: MATHS1005 & MATHS1102
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGRG1001	Computational Skills for Engineers	
	ENGRG1002	Physics for Engineers 1	
	ENGRG1003	Engineering Design 1	
	MATHS1100	Applied Mathematics 1	EX: MATHS1001
Semester 2			
	ENGRG2302	Fluid Mechanics	PR: ENGRG1002 & ENGRG1004 EX: ENGIN3301
	ENGRG3402	Subsurface Environment and Ventilation	CR: ENGRG2302
	ENGRG2404	Rock Mechanics Application	EX: ENGIN5507
		Minor Unit 2	
Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGRG2301	Solid Mechanics	PR: ENGRG1003
	ENGRG2402	Mining Geology and Mineral Processing	
		Minor Unit	

Winter Semester			
	ENGRG2403	Rock Fragmentation	EX: ENGIN2502
Semester 2			
	COOPE2011	Cooperative Placement 1 (Engineering)	PR: COOPE1001 & At least 105 credit points from ENGRG subject-area at any level EX: BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014
	ENGRG3403	Underground Production Systems	PR: ENGRG2403 EX: ENGIN3501
		Minor Unit	
Fourth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGRG2306	Surface Mining Operations and Equipment	PR: If in undergraduate course ENGRG2403 EX: ENGIN3503
	ENGPG9405	Mine Planning and Scheduling	EX: ENGRG4401
	ENGRG4002	Engineering Capstone Project 1	PR: At least 300 credit points EX: ENGIN4001
		Minor Unit	
Semester 2			
	ENGRG4003	Engineering Capstone Project 2	PR: ENGRG4002 EX: ENGIN4002
	ENGPG9406	Mine Surveying	
	ENGPG9407	Smart Engineering Technologies	EX: ENGRG94001
Fifth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGRG4001	Engineering Design Project	PR: At least 300 credit points EX: ENGIN3002
	COOPE2012	Cooperative Placement 2 (Engineering)	PR: COOPE1001 & At least 105 credit points from ENGRG subject-area at any level
	ENGPG9409	Mine and Safety Environmental Engineering	EX: ENGRG9403

Minor Units

ARTIFICIAL INTELLIGENCE

ITECH 1400 Foundations of Programming
ITECH 1503 Data and Information Systems
ITECH 2500 Algorithms for Artificial Intelligence
ITECH 2501 Business Analytics and Decision Support

BUSINESS ENTREPRENEURSHIP

BUMGT 1100 Introduction to Management
BUMGT 1103 Contemporary Human Resource Management
BUMGT 3105 Leadership and Change
BUMGT 3106 Human Resource Practice and Strategy

INFRASTRUCTURE SYSTEMS

ENGP 9110 Road and Traffic Engineering
ENGRG 2106 hydrology and hydraulics
ENGRG 2107 Construction Engineering
ENGRG 4106 Intelligent Technologies for Sustainable Construction

ENVIRONMENTAL SCIENCE

SCENV1001 Environmental Studies
SCENV2600 Geographic Information Systems
SCENV3120 Landscape Restoration and Mine Site Rehabilitation
SCENV3500 Climate and Environmental Issues in a Changing World

ELECTRICAL AND ELECTRONIC SYSTEMS

ENGRG 2201 Digital Logic and Electronic Systems
ENGRG2204 Renewable Energy principles
ENGRG2205 Electrical Machines fundamentals
ENGRG9202 Electrical Demand, Forecasting and Management

MECHANICAL SYSTEMS AND AUTOMATION

ENGRG 2303 Engineering Dynamics
ENGRG 2307 Engineering Computer Applications and Interactive Design
ENGRG 3303 Engineering Materials and Manufacturing
ENGRG 3304 Industrial Automation and IoT

Additional Information

This Course structure applies to mid-year entry students.

TEQSA have advised that, in accordance with B1.1.3 of [Higher Education Standards Framework \(Threshold Standards\) 2021](#) all Higher Education Providers are required to show their TEQSA Provider number and Provider

Category on all relevant public material. ITS have ensured that our website and email signature templates have been amended to ensure compliance and have provided a knowledge article to assist you to update your signatures. Marketing are working to update the brand library and all social media accounts.

Glossary

Semester: designated teaching period.

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

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

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